










Applicable standard											
RATING	Operating temperature range 	-55°C to + 85°C(Note 1)				Storage temperature range		-10°C to + 60°C(Note 3)			
	Operating humidity range	20% to 80%(Note 2)				Storage humidity range		40% to 70% (Note 3)			
	Voltage	1000V AC/DC				Applicable connector		DF22-*S-7. 92C (28) DF22#-*S-7. 92C (#=B, C)			
	Current (*1) 	Contact	1	2, 3	4, 5	Current (*2) 	Contact	1	2, 3	4, 5	
		AWG10	43A	38A	33A		AWG10	30A	25A	22A	
AWG12		38A	32A	26A	AWG12		25A	20A	18A		
AWG14		26A	23A	22A	AWG14		20A	18A	15A		
	AWG16	21A	21A	19A		AWG16	15A	15A	13A		
	RATED VOLTAGE		RATED CURRENT			OVERVOLTAGE CATEGORY			IP- DEGREE		
UL	600V AC/DC		SEE ABOVE LEFT (*1) (AT AMBIENT TEMP. 25°C) (NOTE 5)			—			—		
C-UL	600V AC/DC		SEE ABOVE RIGHT (*2) (TEMP. RISE UP 30°C MAX)			—			—		
TÜV	600V AC/DC		SEE ABOVE RIGHT (*2)			III			IP00		
Specifications											
Item		Test method				Requirements			QT	AT	
Construction											
General examination		Visually and by measuring instrument.				According to drawing.			X	X	
Marking		Confirmed visually.							X	X	
Electric characteristics											
Contact resistance Millivolt level method		20mV MAX, 1mA (DC or 1000 Hz).				5mΩ MAX.			X	—	
Insulation resistance		1000V DC.				1000MΩ MIN.			X	—	
Voltage proof		2500V AC for 1 min.				No flashover or breakdown.			X	—	
Mechanical characteristics											
Mechanical operation		30 times insertions and extractions.				① Contact resistance: 10mΩ MAX. ② No damage, crack or looseness of parts.			X	—	
Vibration		Frequency 10 to 55 Hz, single amplitude 0.75 mm, at 2 h, for 3 directions.				① No electrical discontinuity of 1μs. ② No damage, crack or looseness of parts.			X	—	
Shock		490 m/s ² duration of pulse 11 ms at 3 times for 3 directions.				① No electrical discontinuity of 1μs. ② No damage, crack or looseness of parts.			X	—	
	Count	Description of revisions			Designed		Checked		Date		
	15	DIS-H-00002541			TS. KUMAZAWA		TS. FUKUSHIMA		17. 05. 31		
Unless otherwise specified , refer to IEC 60512.						Approved	KJ. KATAYOSE		05. 01. 05		
						Checked	TY. OMA		05. 01. 05		
						Designed	HK. UMEHARA		05. 01. 05		
						Drawn	HK. UMEHARA		05. 01. 05		
Note QT:Qualification Test AT:Assurance Test X:Applicable Test					Drawing no.		ELC-163719-05-01				
	Specification sheet				Part no.		DF22-*P-7. 92DSA (05)				
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Specifications					
Item	Test method	Requirements	QT	AT	
ENVIRONMENTAL CHARACTERISTICS					
Rapid change of temperature	Temperature -55→ 5 to 35→+85→ 5 to 35 °c Time 30→ 5 max → 30 → 5 max min Under 5 cycles.	① Contact resistance: 10mΩ MAX. ② Insulation resistance: 1000MΩ MIN. ③ No damage, crack or looseness of parts.	X	—	
DAMP HEAT (STEADY STATE)	Exposed at 40 ± 2 °c, 90 to 95 %, 96 h.	① Contact resistance: 10mΩ MAX. ② Insulation resistance: 500MΩ MIN. ③ No damage, crack or looseness of parts.	X	—	
RESISTANCE TO SOLDERING HEAT	①Automatic soldering (Flow) Solder temperature : 260°C for Immersion,duration : 10 sec . ②Manual soldering Soldering iron temperature : 350°C Soldering time : 3 sec. No strength on contact.	No deformation of case of excessive looseness of the terminals.	X	—	
SOLDERABILITY	Soldered at solder temperature, 235°c for insertion duration, 5sec.	Solder shall cover a minimum of 95 % of the surface being immersed.	X	—	
Remarks Note 1:Include the temperature rising by current. Note2:No condensing Note3:Apply to the condition of long term storage for unused products before mount on pcb, After mounted on pcb, operating temperature and humidity range is applied for interim storage during transportation.					
Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.	ELC-163719-05-01		
	SPECIFICATION SHEET	PART NO.	DF22-*P-7. 92DSA (05)		
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(Note 4) Derating curve takes manufacturing tolerances into consideration as well as uncertainties in temperature measurement and the measuring set up and is derived from the basic curve multiplied by 0.8 calculation.

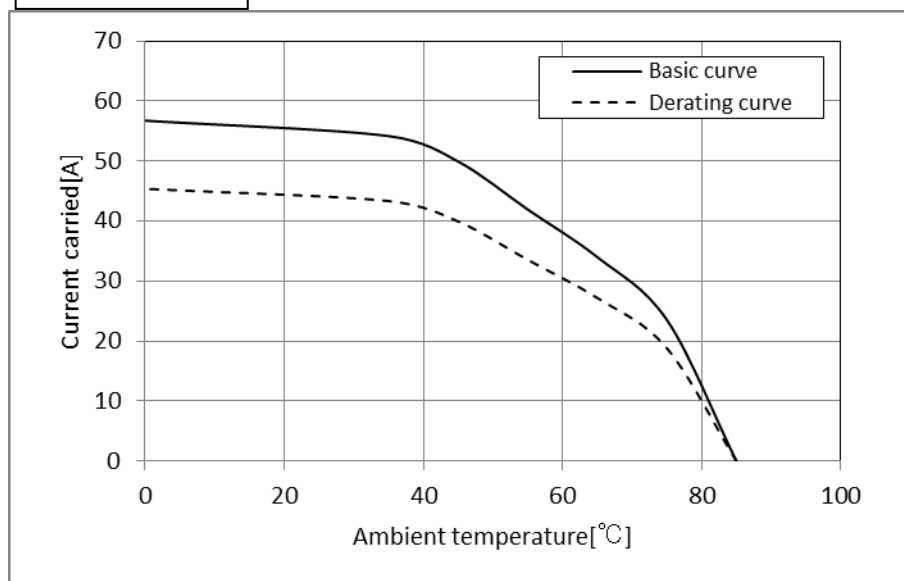
(Note 5) The value of rated current differs depending on the ambient temperature. It is recommended to use the product within the derating curve zone.

(Note 6) Measurement method of derating curve is shown below.

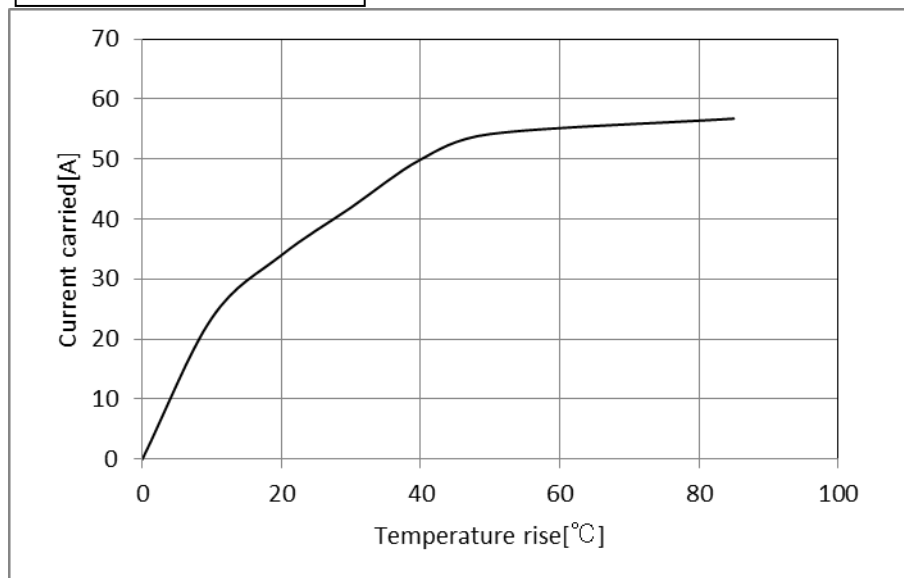
- Test specimen: Unused DF22-1P-7.92DS(05).
Unused DF22-1S-7.92C(28)
Unused DF22A-1012SCF
- Test cable spec: AWG 10
- Test condition: Turn on electricity under the static state and measure.
(Test report # TR680E-20618)

[Reference]

Derating curve



Temperature rise curve



Note QT:Qualification Test AT:Assurance Test X:Applicable Test

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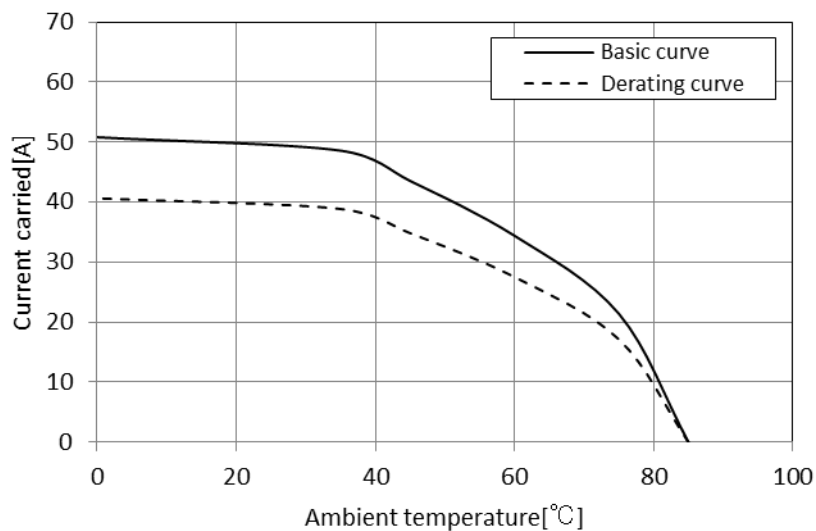


(Note 7) Measurement method of derating curve is shown below.

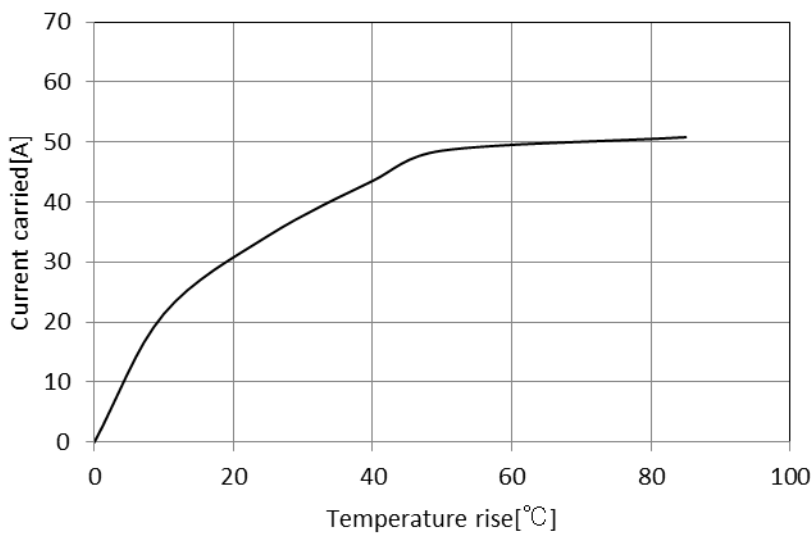
- Test specimen:Unused DF22-3P-7.92DS(05).
Unused DF22-3S-7.92C(28)
Unused DF22A-1012SCF
- Test cable spec:AWG 10
- Test condition: Turn on electricity under the static state and measure.
(Test report # TR680E-20855)

[Reference]

Derating curve



Temperature rise curve



Note QT:Qualification Test AT:Assurance Test X:Applicable Test

Drawing no.

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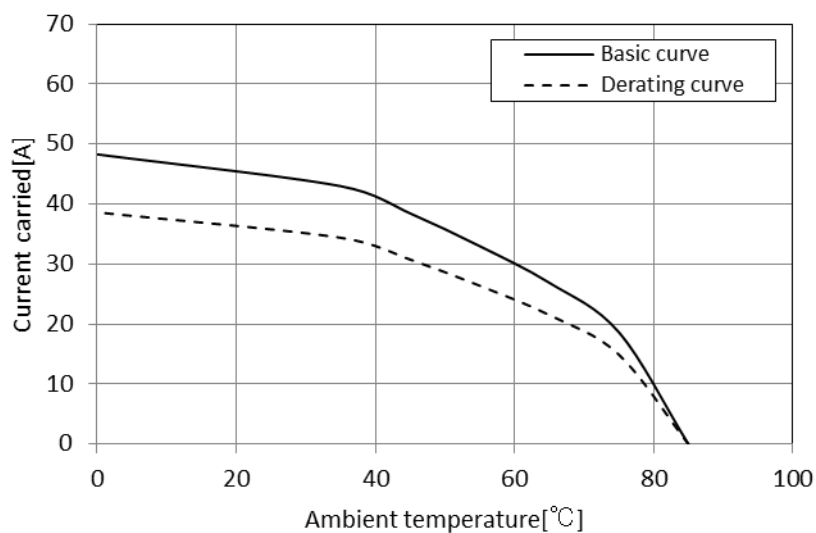


(Note 8) Measurement method of derating curve is shown below.

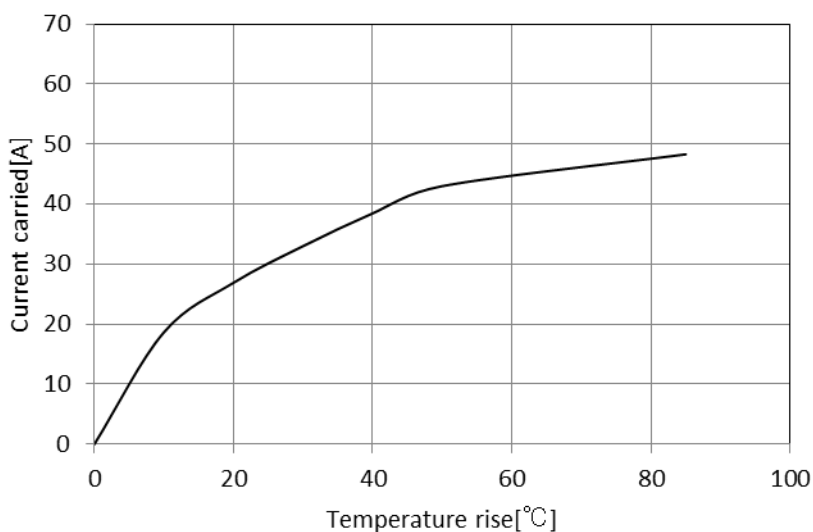
- Test specimen:Unused DF22-5P-7.92DSA(05).
Unused DF22-5S-7.92C(28)
Unused DF22A-1012SCF
- Test cable spec:AWG 10
- Test condition: Turn on electricity under the static state and measure.
(Test report # TR680E-20587)

[Reference]

Derating curve



Temperature rise curve



Note QT:Qualification Test AT:Assurance Test X:Applicable Test

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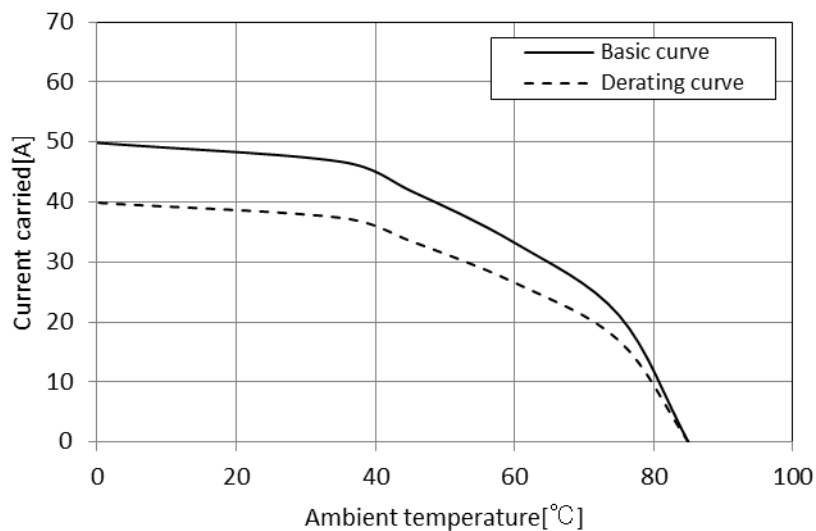


(Note 9) Measurement method of derating curve is shown below.

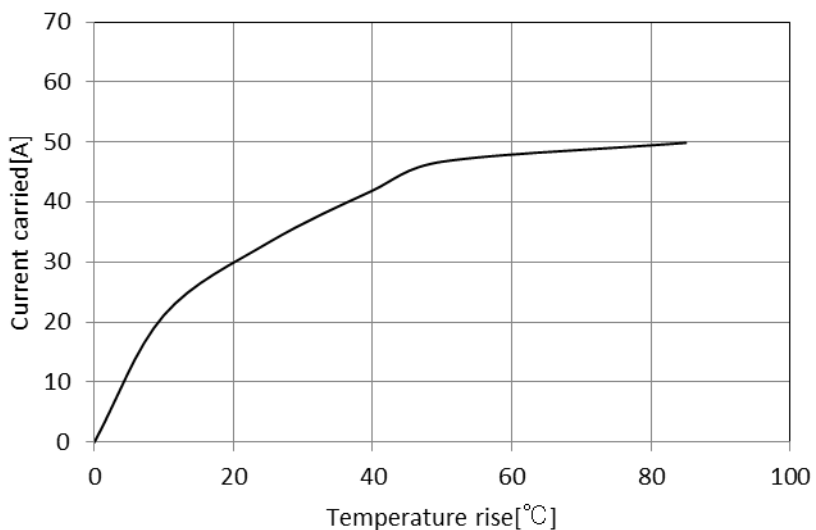
- Test specimen:Unused DF22-1P-7.92DSA(05).
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Unused DF22A-1012SCF
- Test cable spec:AWG 12
- Test condition: Turn on electricity under the static state and measure.
(Test report # TR680E-20855)

[Reference]

Derating curve



Temperature rise curve



Note QT:Qualification Test AT:Assurance Test X:Applicable Test

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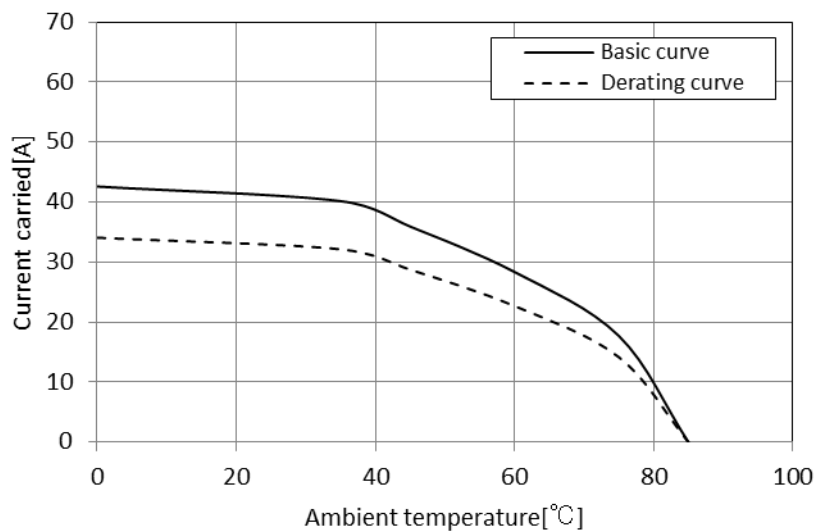


(Note 10) Measurement method of derating curve is shown below.

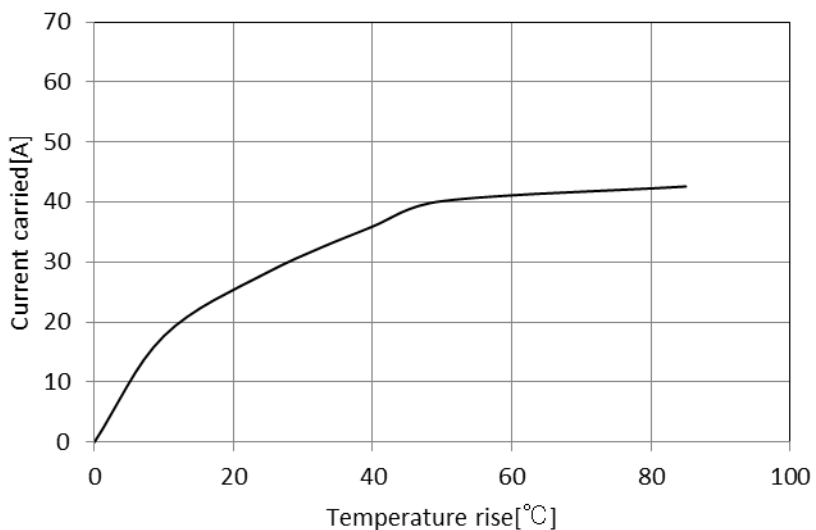
- Test specimen:Unused DF22-3P-7.92DS(05).
Unused DF22-3S-7.92C(28)
Unused DF22A-1012SCF
- Test cable spec:AWG 12
- Test condition: Turn on electricity under the static state and measure.
(Test report # TR680E-20855)

[Reference]

Derating curve



Temperature rise curve



Note QT:Qualification Test AT:Assurance Test X:Applicable Test

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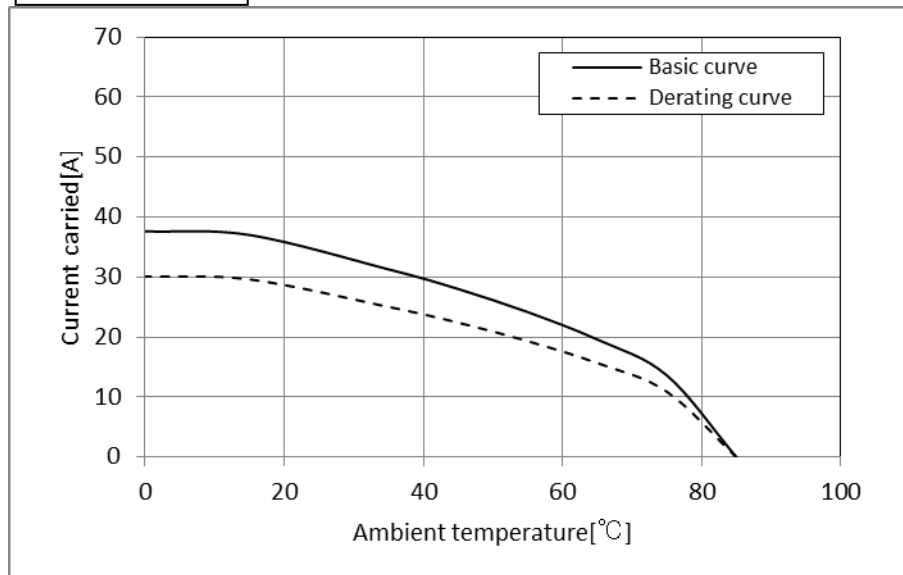


(Note 11) Measurement method of derating curve is shown below.

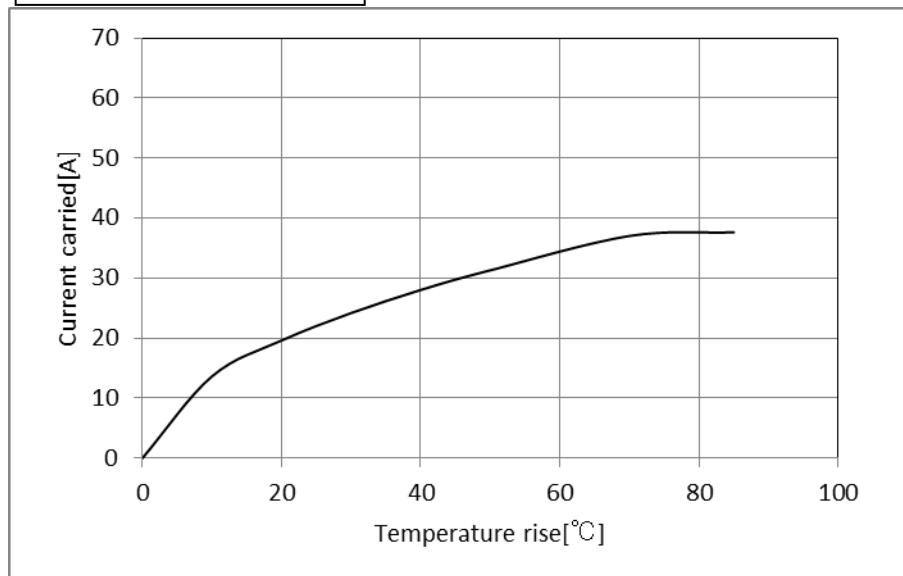
- Test specimen:Unused DF22-5P-7.92DSA(05).
Unused DF22-5S-7.92C(28)
Unused DF22A-1012SCF
- Test cable spec:AWG 12
- Test condition: Turn on electricity under the static state and measure.
(Test report # TR680E-20810)

[Reference]

Derating curve



Temperature rise curve



Note QT:Qualification Test AT:Assurance Test X:Applicable Test

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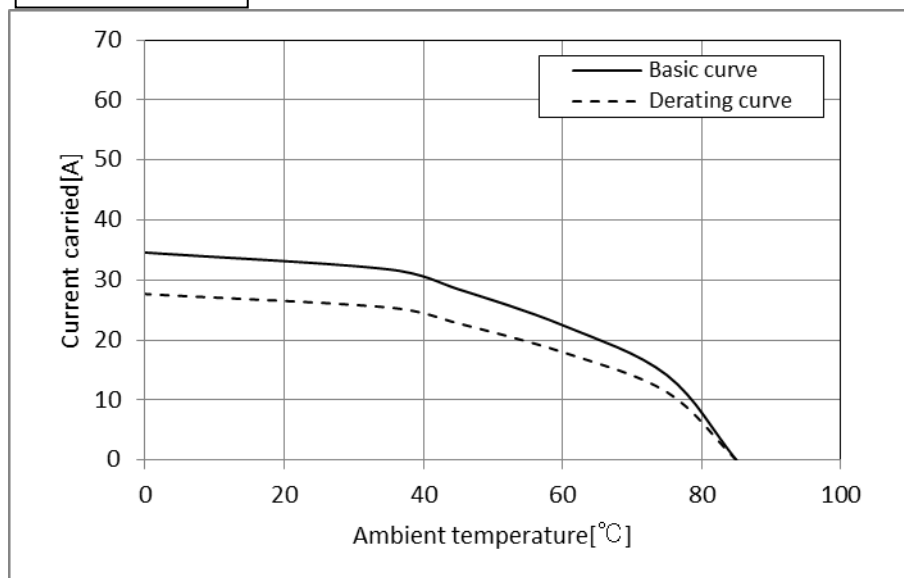


(Note 12) Measurement method of derating curve is shown below.

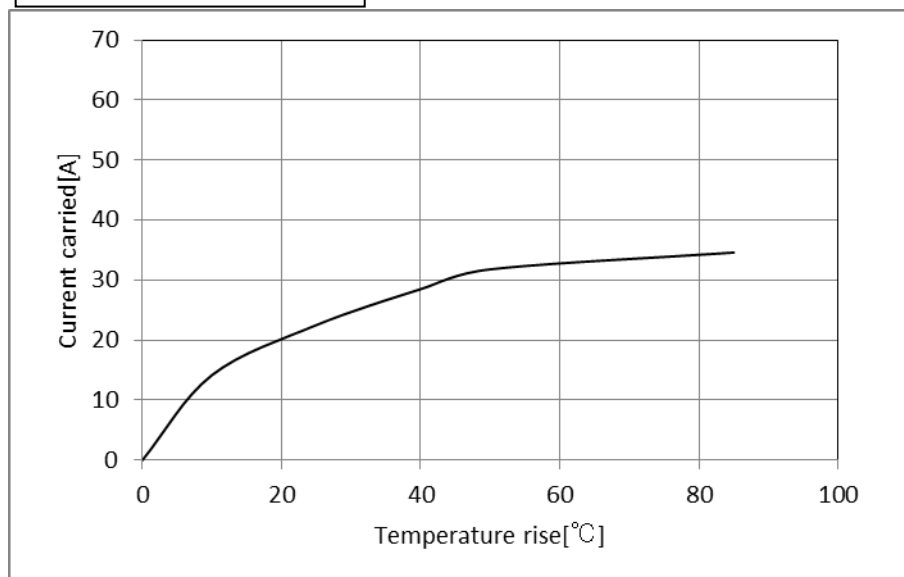
- Test specimen:Unused DF22-1P-7.92DSA(05).
Unused DF22-1S-7.92C(28)
Unused DF22A-1416SCF
- Test cable spec:AWG 14
- Test condition: Turn on electricity under the static state and measure.
(Test report # TR680E-20855)

[Reference]

Derating curve



Temperature rise curve



Note QT:Qualification Test AT:Assurance Test X:Applicable Test

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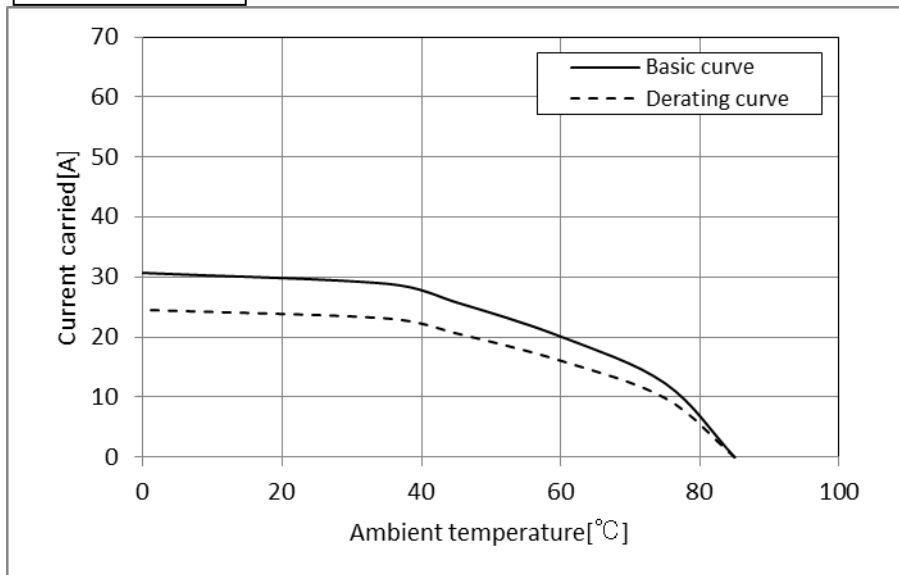


(Note 13) Measurement method of derating curve is shown below.

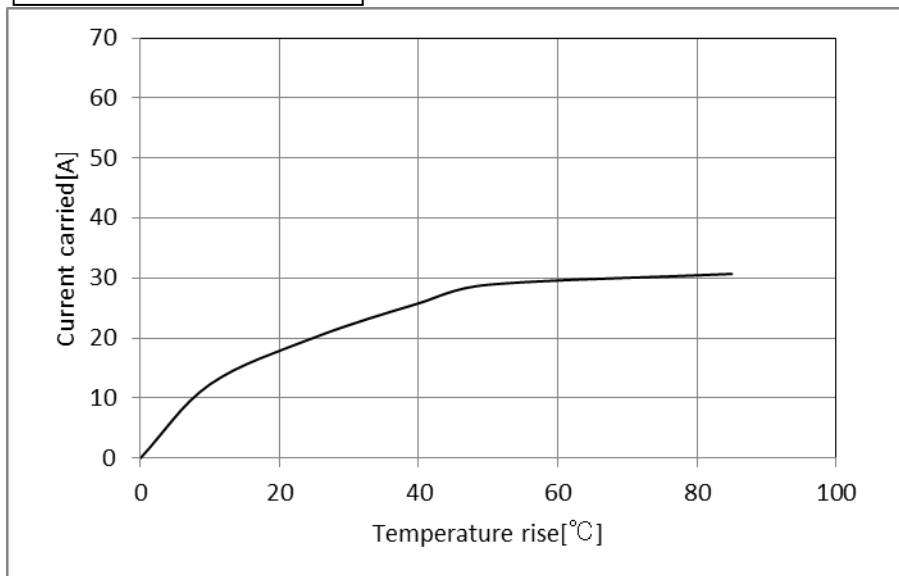
- Test specimen:Unused DF22-3P-7.92DS(05).
Unused DF22-3S-7.92C(28)
Unused DF22A-1416SCF
- Test cable spec:AWG 14
- Test condition: Turn on electricity under the static state and measure.
(Test report # TR680E-20855)

[Reference]

Derating curve



Temperature rise curve



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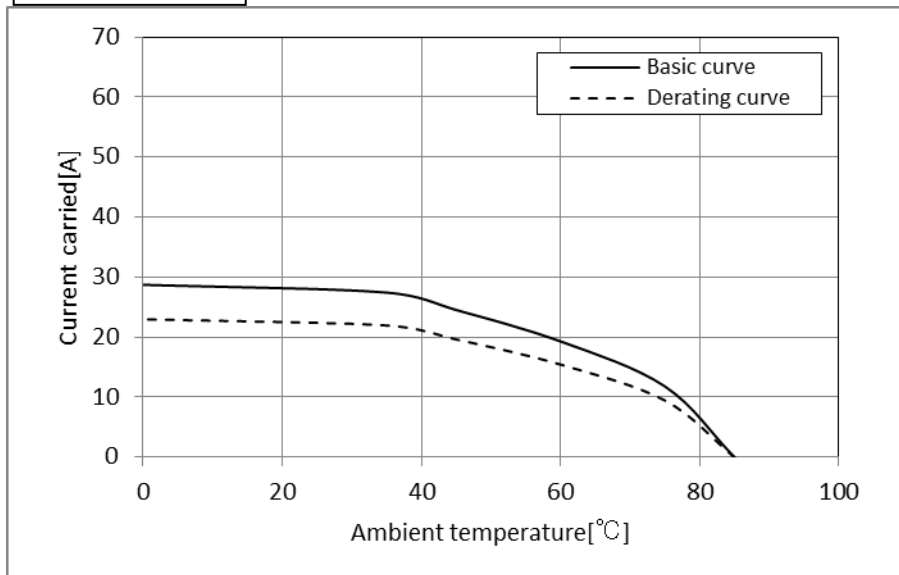


(Note 14) Measurement method of derating curve is shown below.

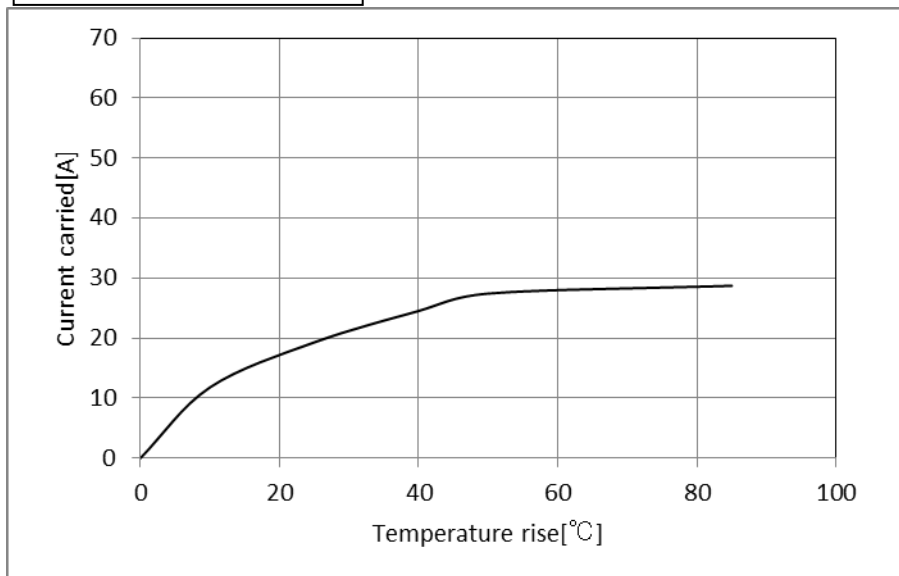
- Test specimen:Unused DF22-5P-7.92DS(05).
Unused DF22-5S-7.92C(28)
Unused DF22A-1416SCF
- Test cable spec:AWG 14
- Test condition: Turn on electricity under the static state and measure.
(Test report # TR680E-20855)

[Reference]

Derating curve



Temperature rise curve



Note QT:Qualification Test AT:Assurance Test X:Applicable Test

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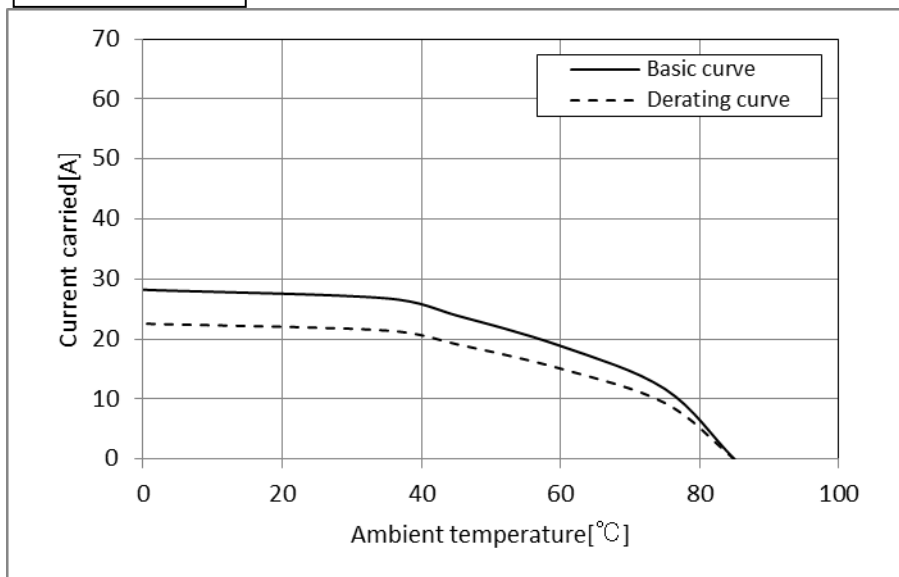


(Note 15) Measurement method of derating curve is shown below.

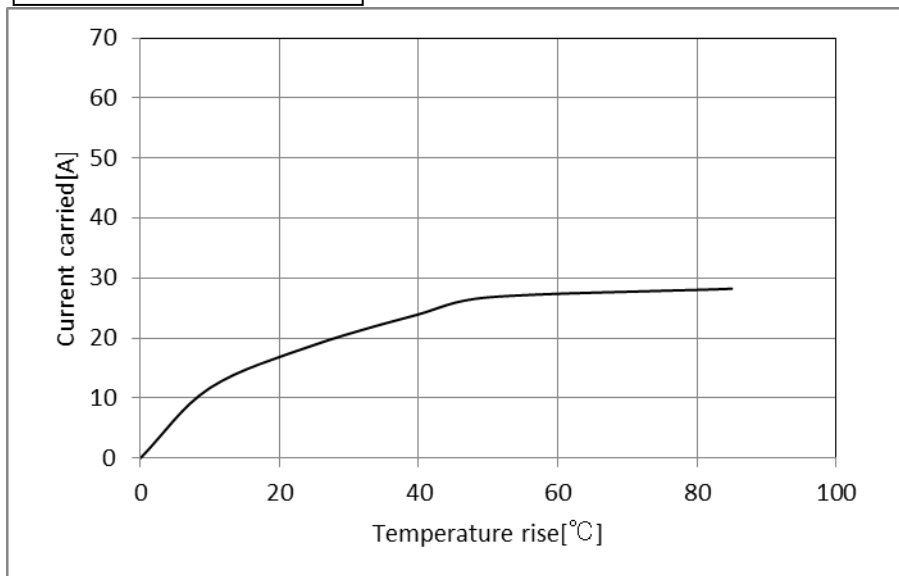
- Test specimen:Unused DF22-3P-7.92DS(05).
Unused DF22-3S-7.92C(28)
Unused DF22A-1416SCF
- Test cable spec:AWG 16
- Test condition: Turn on electricity under the static state and measure.
(Test report # TR680E-20855)

[Reference]

Derating curve



Temperature rise curve



Note QT:Qualification Test AT:Assurance Test X:Applicable Test

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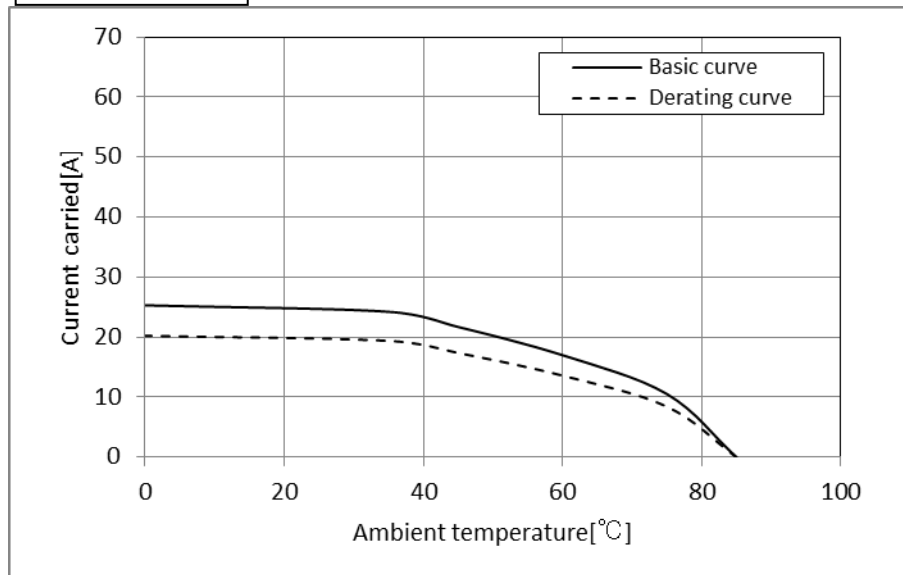


(Note 16) Measurement method of derating curve is shown below.

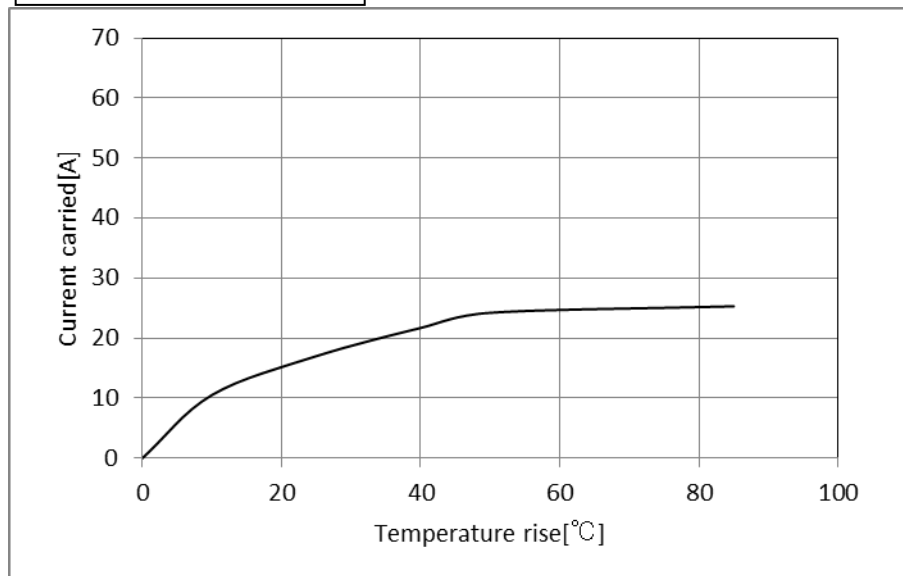
- Test specimen:Unused DF22-5P-7.92DS(05).
Unused DF22-5S-7.92C(28)
Unused DF22A-1416SCF
- Test cable spec:AWG 16
- Test condition: Turn on electricity under the static state and measure.
(Test report # TR680E-20855)

[Reference]

Derating curve



Temperature rise curve



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