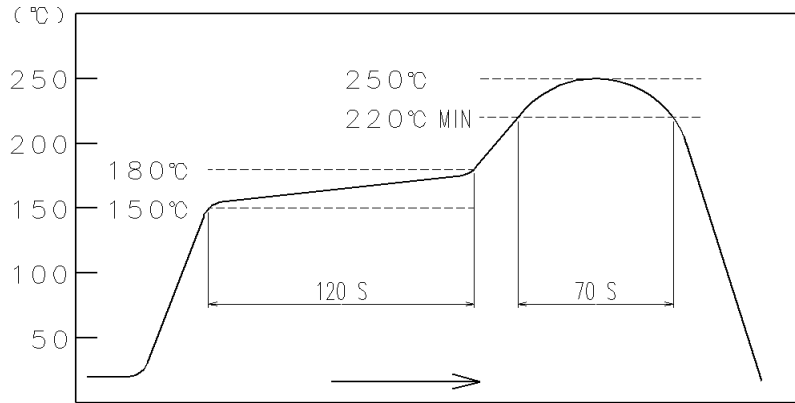


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In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

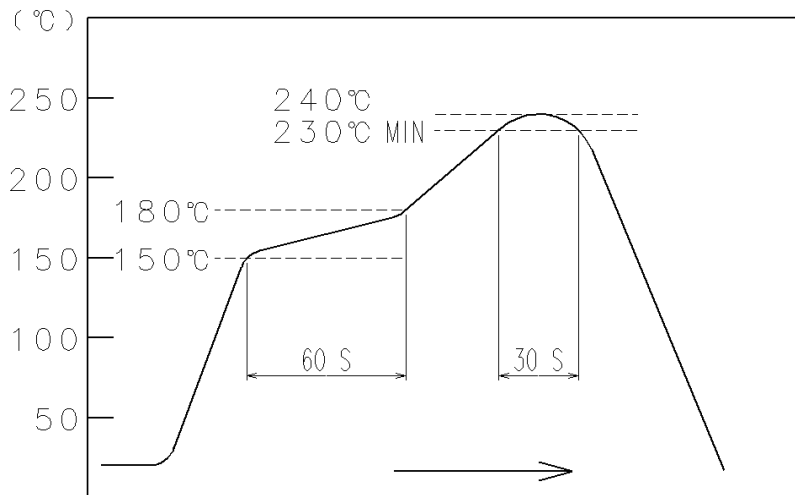
APPLICABLE STANDARD							
RATING	OPERATING TEMPERATURE RANGE	-30 °C TO +85 °C		STORAGE TEMPERATURE RANGE	-30 °C TO +60 °C		
	VOLTAGE	30V AC		OPERATING HUMIDITY RANGE	— % TO — %		
	CURRENT ① SIGNAL ONLY ② POWER APPLY	① 1 A/pin ② 1.8 A/pin (PIN No.1,5) 0.5 A/pin (PIN No.2-4)	APPLICABLE CABLE		—		
<b>SPECIFICATIONS</b>							
ITEM		TEST METHOD		REQUIREMENTS		QT	AT
<b>CONSTRUCTION</b>							
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.		x	x
MARKING		CONFIRMED VISUALLY.				x	x
<b>ELECTRICAL CHARACTERISTICS</b>							
CONTACT RESISTANCE		100 mA (DC OR 1000 Hz).		30 mΩ MAX.		x	x
INSULATION RESISTANCE		500 V DC.		100 MΩ MIN.		x	x
VOLTAGE PROOF		100 V AC FOR 1 min.		NO FLASHOVER OR BREAKDOWN.		x	x
CAPASITANCE		MEASURE ADJACENT TWO CONTACTS AT 1000±10Hz AC VOLTAGE.		2 pF MAX		x	—
<b>MECHANICAL CHARACTERISTICS</b>							
INSERTION AND WITHDRAWAL FORCES		A MAXIMUM RATE OF 12.5mm/min. MEASURED BY APPLICABLE CONNECTOR.		INSERTION FORCE 35N MAX WITHDRAWAL FORCE 1N MIN.		x	—
MECHANICAL OPERATION		10000 TIMES INSERTIONS AND EXTRACTIONS. MATING SPEED - MECHANICALLY OPERATED : 500 CYCLES / h - MANUALLY OPERATED : 200 CYCLES / h		① CONTACT RESISTANCE :NO INCREASE OF MORE THAN 10 mΩ FROM INITIAL VALUE. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS. ③ INSERTION FORCE 35N MAX WITHDRAWAL FORCE 1N MIN.		x	—
<b>ENVIRONMENTAL CHARACTERISTICS</b>							
THERMAL SHOCK		TEMP -55 → 15 TO 35 → 85 → 15 TO 35 °C TIME 30 → 2 TO 3 → 30 → 2 TO 3 min UNDER 10 CYCLES. (MATING APPLICABLE CONNECTOR)		① CONTACT RESISTANCE : 70 mΩ MAX. ② INSULATION RESISTANCE :10 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS,OF PARTS.		x	—
HUMIDITY LIFE		TEMPERATURE -10~65 °C, HUMIDITY 90 TO 98 %, UNDER 7 CYCLES (168 h) (MATING APPLICABLE CONNECTOR)		NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.		x	—
DRY HEAT		EXPOSED AT +85±2 °C, 96 h. (MATING APPLICABLE CONNECTOR)		NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.		x	—
COLD		EXPOSED AT -40±2°C, 96h. (METING APPLICABLE CONNECTOR)		NO DAMAGE, CRACK AND LOOSENESS, OF PARTS		x	—
CORROSION SALT MIST		EXPOSED AT 5 % SALT WATER, 35 °C, FOR 48h. (LEFT UNDER UNMATED CONDITION)		NO HEAVY CORROSION OF CONTACTS.		x	—
SOLDERABILITY		SOLDERING POINT IMMERSED IN SOLDER BATH OF 255±5°C,5 sec. (USING TYPE R FLAX)		SOLDER SHALL COVER MINIMUM OF 95% OF THE SURFACE BEING IMMERSED.		x	—
RESISTANCE TO SOLDERING HEAT		A PROFILE IS SHOWN IN FIG-1, UNDER 2 CYCLES.		NO DEFORMATION SIGNIFICANT LOOSENESS OF CONTACTS.		x	—
	COUNT	DESCRIPTION OF REVISIONS		DESIGNED	CHECKED	DATE	
△							
REMARK				APPROVED	NM. NISHIMATSU	15. 10. 27	
HIROSE will not guarantee the performance on these specifications in case this product will be mated with the others which is not HIROSE's. Unless otherwise specified, refer to IEC 60512.				CHECKED	KN. ICHIKAWA	15. 10. 27	
				DESIGNED	TS. ITO	15. 10. 27	
				DRAWN	AK. AKIYAMA	15. 10. 27	
				Note QT:Qualification Test AT:Assurance Test X:Applicable Test			
<b>HRS</b>	SPECIFICATION SHEET			PART NO.	ZX60-B-5SA (31)		
	HIROSE ELECTRIC CO., LTD.			CODE NO.	CL242-0064-1-31	△	1/2

# SPECIFICATIONS



**FIG - 1 RESISTANCE TO SOLDERING HEAT  
(TEMPERATURE AT TOP SURFACE OF CONNECTOR)**

■ RECOMMENDED PROFILE REFERS TO FIG - 2.  
(TEMPERATURE AT SMT LEADS)



**FIG - 2 RECOMMENDED REFLOW PROFILE TEMPERATURE**

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

DRAWING NO.

ELC-127366-31-00



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2/2