APPLICA	BLE STAN	DARD							<u>^\</u>		
OPERATING TEMPERATUR RATING VOLTAGE		E RANGE	⚠ -40 °C TO 10	5 °C	STOR TEMP		RE RANGE	-	-40°CTO105°C(MOUN	MEDON	IPCB)
		50 // Δ( / 1)(			RATING OR STORAGE DITY RANGE		GE F	RELATIVE HUMIDITY 90 % MAX (NOT DEWED)			
	CURRENT					ICABLE CABLE t=0.3±0.05mm, GOL			D PLATING		
			SPEC	IFIC	ATIO	NS					
I7	ГЕМ		TEST METHOD				R	EQU	IREMENTS	QT	АТ
	RUCTION										
			SUALLY AND BY MEASURING INSTRUMENT. ONFIRMED VISUALLY.			ACCORDING TO DRAWING.				×	×
MARKING	10 41 - 01 141									×	×
ELECTRICAL CHAR CONTACT RESISTANCE						50 mO	MAN				Ι.,
CONTACT RESISTANCE		, , , , , , , , , , , , , , , , , , ,				50 mΩ MAX.  INCLUDING FPC,FFC BULK RESISTANCE				×	×
INSULATION		100 V DC.			(L=8mm) 500 MΩ MIN.				×	×	
RESISTANCE VOLTAGE PROOF		150 V AC FOR 1 min.			NO FLASHOVER OR BREAKDOWN.				×	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
		130 V AC FOR 1 MIN.				INO I L	NO FLASHOVER OR BREAKDOWN.				×
	NICAL CHA										
MECHANICAL OPERATION		20 TIMES INSERTIONS AND EXTRACTIONS.			② NO	<ol> <li>CONTACT RESISTANCE: 50 mΩ MAX.</li> <li>NO DAMAGE, CRACK AND LOOSENESS OF PARTS.</li> </ol>				-	
		FREQUENCY 10 TO 55 Hz, HALF AMPLITUDE 0.75 mm, FOR 10 CYCLES IN 3 AXIAL DIRECTIONS.			① NO ELECTRICAL DISCONTINUITY OF 1 μs.				×	-	
SHOCK 98		981 m/s <sup>2</sup> , DURATION OF PULSE 6 ms AT 3 TIMES IN 3 BOTH AXIAL DIRECTIONS.			<ul> <li>CONTACT RESISTANCE: 50 mΩ MAX.</li> <li>NO DAMAGE, CRACK AND LOOSENESS OF PARTS.</li> </ul>				-		
(		MEASURED BY APPLICABLE FPC. (CONNECTOR,FPC AT INITIAL CONDITION. THICKNESS OF FPC SHALL BE t=0.30mm)			DIRECTION OF INSERTION: 0.4×n N MIN (n: NUMBER OF CONTACTS).			×	-		
ENVIRO	NMENTAL		ACTERISTICS	· · · · · · · · ·		1				I	1
TEMPERATURE ZIX TIM		TEMPER TIME UNDER				① CONTACT RESISTANCE: $50 \text{ m}\Omega$ MAX. ② INSULATION RESISTANCE: $50 \text{ M}\Omega$ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS				_	
DAMP HEAT		EXPOSED AT 40±2 °C, RELATIVE HUMIDITY 90 TO 95 %, 96 h.				OF PARTS.  ① CONTACT RESISTANCE: 50 mΩ MAX. ② INSULATION RESISTANCE: 1 MΩ MIN. (AT HIGH HUMIDITY) ③ INSULATION RESISTANCE: 50 MΩ MIN. (AT DRY) ④ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.				×	_
DAMP HEAT, CYCLIC		EXPOSED AT -10 TO +65 °C, RELATIVE HUMIDITY 90 TO 96 %, 10 CYCLES,TOTAL 240 h.								I	_
DRY HEAT 🛕		EXPOSE	EXPOSED AT 105±2 °C, 96 h.			① CONTACT RESISTANCE: $50 \text{ m}\Omega$ MAX.				. ×	<b> </b>
COLD		EXPOSE	EXPOSED AT -40±3°C, 96 h.			② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.				S ×	<del> </del>
CORROSION SALT MIST		EXPOSED AT 35±2 °C 5% SALT WATER SPRAY FOR 96 h.			① CONTACT RESISTANCE: 50 mΩ MAX. ② NO EVIDENCE OF CORROSION WHICH					-	
SULPHUR DIOXIDE		EXPOSED AT 40±2 °C , RELATIVE HUMIDITY 80±5% , 25±5 ppm FOR 96 h.			AFFECTS TO OPERATION OF CONNECTOR.			×	-		
			XPOSED AT 40±2 ℃ , RELATIVE HUMIDITY 0±5% , 10 TO 15 ppm FOR 96 h.							×	_
A		SCRIPTION	TION OF REVISIONS DESIG							DA	ATE
			S-F-00000202 HK. K1N			1			HS. SAKAMOTO		)3. 25
REMARK STORAGE TEMPERATURE			RE RANGE IN THE EMBOSSED CARRIER TAI ied, refer to JIS C 5402.			PE APPROVED CHECKED DESIGNED DRAWN			NF. MIYAZAKI SJ. OKAMURA		03. 04
: -10 TO +50 °C △									HK. KINOUCHI		03. 03
Unless otherwise specified, re									HK. KINOUCHI	15. 03. 0	
Note QT:Qualification Test AT:As				est	DF	RAWIN	RAWING NO.		ELC-359845-00		
HS.	SI	PECIFI	ICATION SHEET PART			NO. FH52E-*(*) SB-1SI			Н		
	HIR	OSE ELECTRIC CO., LTD. CODE			E NO. CL580		CL580	Δ	1/2		

SPECIFICATIONS								
ITEM	TEST METHOD	REQUIREMENTS	QT	AT				
RESISTANCE TO SOLDERING HEAT	1) REFLOW SOLDERING (TO BE 2 TIMES MAX.) PEAK TMP. 250 °C MAX REFLOW TMP. OVER 230 °C WITHIN 60 sec. PRE-HEATING. 150 TO 200 °C 90 TO 120 sec. 2) SOLDERING IRONS : 350 ± 10 °C, FOR 5± 1 sec.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	×	_				
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 245±3 °C FOR IMMERSION DURATION, 3±0.3 sec.	A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED.	×	-				

## (note 1)

WHEN THE SAME VALUE OF CURRENT ARE APPLIED TO ALL CONTACTS AT THE SAME TIME IN ONCE, SET THE CURRENT TO THE 70 % OF THE RATED CURRENT VALUE.

Note QT:	Qualification Test AT:Assurance Test X:Applicable Test	DRAWIN	IG NO.	ELC-359845-00-00		
HS	SPECIFICATION SHEET	PART NO.	FH52E-* (*) SB-1SH			
11.0	HIROSE ELECTRIC CO., LTD.	CODE NO		CL580	Δ	2/2