APPLICABLE STANDARD								$\Lambda$			
OPERATING TEMPERATUR		E RANGE	⚠ -40 °C TO 10	5 °C	TEMF		RE RANGE		°CTO 105°C (MOUN	NTEDON	IPCB)
RATING	VOLTAGE		50 V AC / D	С	HUMIDITY RA			RELA	ПVЕНИМІДПУ 90 % МА	X(NOT DI	EWED)
CURRENT			0.5 A ( <b>note 1</b>	<u> </u>	APPLICABLE CABLE			t=C	t=0.3±0.05mm, GOLD PLATING		
			SPEC	IFIC	ATIO	NS					
	EM		TEST METHOD				REC	QUIRE	MENTS	QT	AT
	RUCTION					_					
	EXAMINATION		Y AND BY MEASURING IN	ISTRUM	ENT.	ACCO	RDING TO	DRAW	/ING.	×	×
MARKING		CONFIRMED VISUALLY.								×	×
		RACTERISTICS								1	
CONTACT RESISTANCE		1mA(DC OR 1000Hz).				50 mΩ MAX.				×	×
						INCLUDING FPC,FFC BULK RESISTANCE (L=8mm)					
INSULATION RESISTANC		100 V DC.				500 MΩ MIN.				×	×
VOLTAGE F		150 V AC FOR 1 min.			NO FL	NO FLASHOVER OR BREAKDOWN.				×	
MECHAN	IICAL CHA	RACT									1
MECHANIC		20 TIMES INSERTIONS AND EXTRACTIONS.				① CO	① CONTACT RESISTANCE: 50 mΩ MAX.				_
OPERATION	OPERATION					② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.				S	
VIBRATION		FREQUENCY 10 TO 55 Hz, HALF AMPLITUDE 0.75 mm, FOR 10 CYCLES IN 3 AXIAL			① NO ELECTRICAL DISCONTINUITY OF				×	_	
		DIRECTI		AL		1 μs. ② CONTACT RESISTANCE: $50 \text{ m}\Omega$ MAX.					
SHOCK		981 m/s <sup>2</sup> , DURATION OF PULSE 6 ms AT 3 TIMES IN 3 BOTH AXIAL DIRECTIONS.			③ NO DAMAGE, CRACK AND LOOSENESS					-	
FPC RETEN	ITION FORCE		IRED BY APPLICABLE FPC		J.	OF PARTS. DIRECTION OF INSERTION: 0.4×n N MIN			×	<u> </u>	
TO KETENTION TOKOL		(CONNECTOR, FPC AT INITIAL CONDITION.					( n : NUMBER OF CONTACTS).				
EN // DO			ESS OF FPC SHALL BE t=0	).30mm	)						
			ACTERISTICS	1051	F .2500	10.00	NTACT DE	CICTA	NOT: FO O MAY	1	I
TEMPERATURE ZIX		TEMPERATURE-40 $\rightarrow$ +15 <sub>TO</sub> +35 $\rightarrow$ +105 $\rightarrow$ +15 <sub>TO</sub> +35°C TIME 30 $\rightarrow$ 2 TO 3 $\rightarrow$ 30 $\rightarrow$ 2 TO 3 min. UNDER 5 CYCLES.				<ul> <li>② INSULATION RESISTANCE: 50 MΩ MIN.</li> <li>③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.</li> </ul>					
DAMP HEAT (STEADY STATE)		EXPOSED AT 40±2 °C, RELATIVE HUMIDITY 90 TO 95 %, 96 h.								×	_
DAMP HEAT	,	EXPOSED AT -10 TO +65 °C,			① CONTACT RESISTANCE: 50 mΩ MAX.				×	_	
·		RELATIVE HUMIDITY 90 TO 96 %,				② INSULATION RESISTANCE: 1 M $\Omega$ MIN.					
		10 CYCLES,TOTAL 240 h.				(AT HIGH HUMIDITY)  ③ INSULATION RESISTANCE: 50 MΩ MIN. (AT DRY)					
						(4) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.				S	
DRY HEAT	$\Lambda$	EXPOSED AT 105±2 °C, 96 h.			① CONTACT RESISTANCE: $50 \text{ m}\Omega$ MAX.				×	<u> </u>	
COLD		EXPOSE	EXPOSED AT -40±3°C, 96 h.			② NO DAMAGE, CRACK AND LOOSENESS				s <del>x</del>	_
CORROSION SALT MIST		EXPOSED AT 35±2 °C 5% SALT WATER SPRAY			OF PARTS.  ① CONTACT RESISTANCE: 50 mΩ MAX.					<u> </u>	
		FOR 96 h.			② NO EVIDENCE OF CORROSION WHICH				, ,		
	SULPHUR DIOXIDE [JIS C 60068-2-42]		EXPOSED AT 40±2 °C , RELATIVE HUMIDITY 80±5% , 25±5 ppm FOR 96 h.			AFFECTS TO OPERATION OF CONNECTOR.			×	-	
HYDROGEN	SULPHIDE	EXPOSE	ED AT 40±2 °C , RELATIVE 10 TO 15 ppm FOR 96 h.	HUMIDI	TY					×	-
COUN	1		ON OF REVISIONS		DESIG	NFD			CHECKED	DA	ATE
<u> </u>		-F-00000202 HK. KIN					HS. SAKAMOTO		)3. 25		
REMARK						APPROV		-	NF. MIYAZAKI		03. 04
		JRE RANGE IN THE EMBOSSED CARRIER TAI			DESIGNED		D	SJ. OKAMURA	15.0	03. 03	
	+50 °C △\						D	HK. KINOUCHI	15. 03. 0		
Unless otherwise specified			d, refer to JIS C 5402.			DRAWN			HK. KINOUCHI	15. 03. 03	
Note QT:Qualification Test AT:			surance Test X:Applicable Test DI			RAWING NO.			ELC-359845-00-00		
HS.	SF	SPECIFICATION SHEET			PART NO.		FH52E-* (*) SB-1SH				ı
	HIR	OSE EI	LECTRIC CO., LTD.		CODE	CODE NO.		CL580			1/2

SPECIFICATIONS								
ITEM	TEST METHOD	REQUIREMENTS	QT	АТ				
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	DRAWING NO.		ELC-359845-00-00			
HRS	SPECIFICATION SHEET	PART NO.	FH52E-*(*)SB-1SH				
	HIROSE ELECTRIC CO., LTD.	CODE NO		CL580	Δ	2/2	