STANDARD RECOVERY 3-PHASE FULL WAVE BRIDGE RECTIFIERS

SC3BH05 SC3BH1 SC3BH2 SC3BH4 SC3BH6

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STANDARD RECOVERY, LOW CURRENT 3-PHASE FULL WAVE BRIDGE RECTIFIER ASSEMBLIES

- Low forward voltage drop
- Low reverse leakage current
- Aluminum case
- Low thermal impedance
- Insulated electrical connections

QUICK REFERENCE DATA

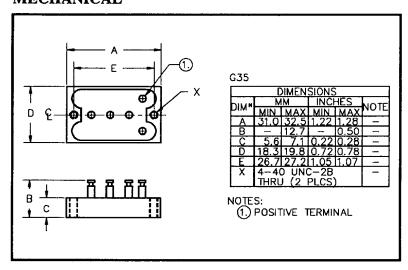
- $V_R = 50V 600V$
- $I_F = 10A$
- IR = $3.0 \,\mu\text{A}$
- $t_{rr} = 2.0 \mu S$

ABSOLUTE MAXIMUM RATINGS

Device Type	Working Reverse Voltage V _{RWM}	Average Rectified Current I _{F(AV)}						1 Cycle Surge Current	
		@ case temperature			@ ambient temperature			I_{FSM} @ $t_p = 8.3 \text{mS}$	
		@ 55°C	@ 100°C	@ 125°C	@ 25°C	@ 55°C	@ 100°C	@ 25°C	@ 100°C
	Volts	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps
SC3BH05	50								
SC3BH1	100								
SC3BH2	200	10	7	5	4	3	1.7	150	100
SC3BH4	400								
SC3BH6	600								
									1

 $R_{\theta JC} = 4.5^{\circ}C/W$

MECHANICAL



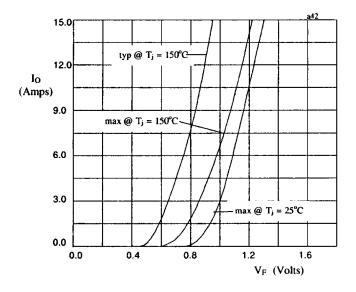
SC3BH6 is available in Europe to DEF STAN 59-61/90/208 release to F and FX levels.

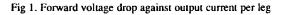
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ELECTRICAL CHARACTERISTICS

Device Type		Vrwm	Maximum Forward Voltage V _F @ 3A/leg	Maximum Reverse Recovery Time	Maximum operating & storage temp range.	
1770	@ 25°C	@ 100°C	@ 25°C	t _{rr} @ 25°C	T _{OP} T _{STG}	
	μA	μΑ	Volts	μS	°C	
SC3BH05						
SC3BH1					- 55	
SC3BH2	3.0	60	1.0	2.0	to	
SC3BH4					+150	
SC3BH6						

¹ Measured on discrete devices prior to assembly





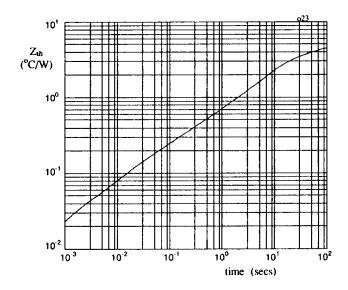


Fig 2. Transient thermal impedance characteristic per leg