

CURRENT 35 Ampere
 VOLTAGE RANG 800 to 1600 Volts

3SRB3508 THRU 3SRB3516

Maximum Ratings & Thermal Characteristics (T_A = 25 °C unless otherwise noted)

Items	Symbol	3SRB3508	3SRB3510	3SRB3512	3SRB3516	UNIT
Maximum repetitive peak reverse voltage	V _{RRM}	800	1000	1200	1600	V
Maximum RMS voltage	V _{RMS}	560	700	840	1120	V
Maximum DC blocking voltage	V _{DC}	800	1000	1200	1600	V
Maximum average forward rectified current at T _c =100 (With heatsink)	I _{F(AV)}	35				A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	400				A
I ² t Rating for Fusing (t<8.3ms)	I ² t	664				A ² s
Isolation Breakdown Voltage(R.M.S) @a.c.50HZ;r.m.s.;1min		2500				V
		0.96				/W
Operating junction and storage temperature range	T _J , T _{STG}	-55 to +150				

Note 1: With heatsink, Thermal resistance test is according to JESD 282b.

Fig.1 Forward Current Derating Curve

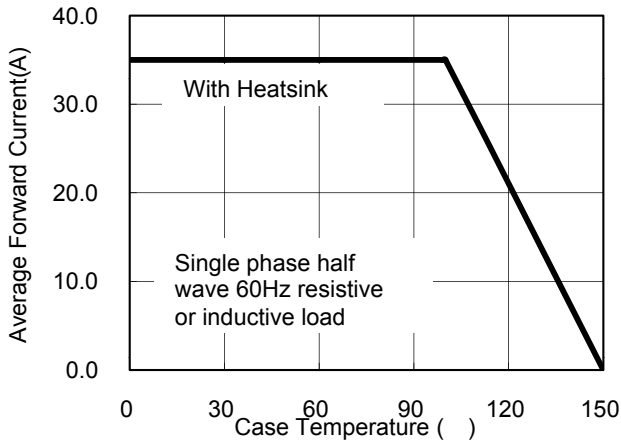


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

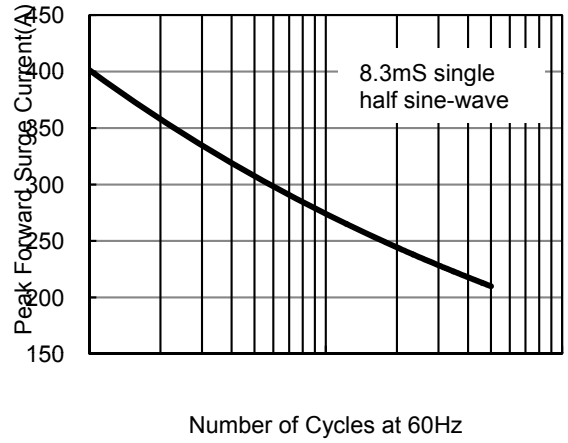


Fig.3 Typical Instantaneous Forward Characteristics

