



Reverse Voltage - 20 to 200 Volts Forward Current - 5.0 Ampere

	SYMBOLS	SR 520	SR 540	SR 560	SR 580	SR 5100	SR 5150	SR 5200	UNITS
Maximum repetitive peak reverse voltage	V _{RRM}	20	40	60	80	100	150	200	VOLTS
Maximum RMS voltage	V	14	28	42	56	70	105	140	VOLTS
Maximum DC blocking voltage	V _{DC}	20	40	60	80	100	150	200	VOLTS
Maximum average forward rectified current	I _{AV}	5.0							Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	150.0							Amps
Maximum instantaneous forward voltage at 5.0A	V _F	0.55		0.70	0.85		0.95		Volts
Maximum DC reverse current T _A =25°C	I _R	500		100	50				uA
at rated DC blocking voltage T _A =100°C		10.0							mA
Typical thermal resistance	R _{qJA}	20.0							°C/W
Operating junction temperature range	T _J	-55 to +125			-55 to +150				°C
Storage temperature range	T _{STG}	-55 to +150							°C

RATINGS AND CHARACTERISTIC CURVES

FIG. 1- FORWARD CURRENT DERATING CURVE

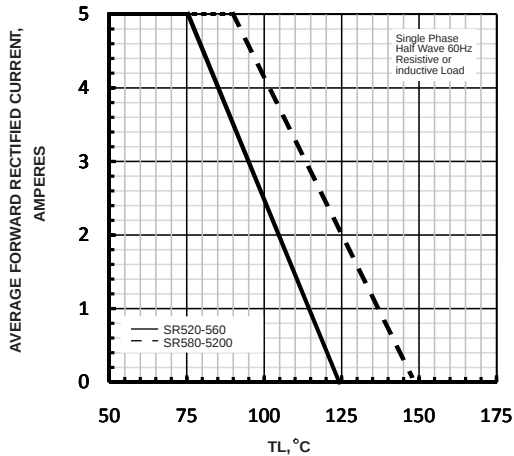


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

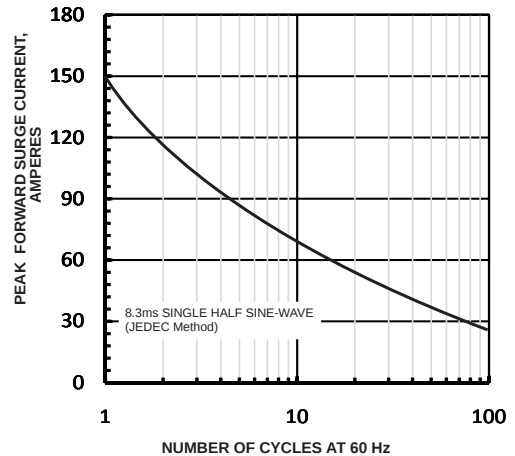


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

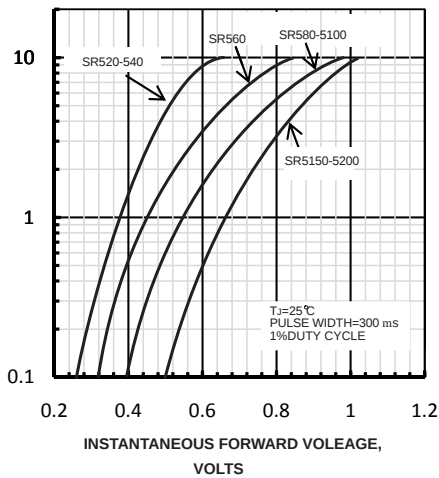


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

