

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unles	ss otl	nerwise	specified
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	SYMBOLS	G1A	G1B	G1D	G1G	G1J	G1K	G1M	UNITS
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	Vrms	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	VDC	50	70	200	400	600	800	1000	Volts
Maximum average forward rectified current 0.375 " (9.5mm) lead length at T _A =100°C	I(AV)	1.0						Amp	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	50.0						Amps	
Maximum instantaneous forward voltage at 1.0A	VF	1.2 1.1						Volts	
Maximum full load reverse current, full cycle average 0.375" (9.5mm) lead length at TA=100°C	I _{R(AV)}	200.0						μΑ	
Maximum DC reverse currentTA=25°Cat rated DC blocking voltageTA=150°C	IR	2.0 100.0							μΑ
Typical reverse recovery time (NOTE 1)	trr	1.5						μs	
Typical junction capacitance (NOTE 2)	CJ	15.0						pF	
Typical thermal resistance (NOTE 3)	Røjl	55.0							°C/W
Operating junction and storage temperature range	TJ, TSTG	65 to +175							°C

NOTES:

(1) Measured with IF=0.5A, IR=1.0A, Irr=0.25A

(2) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts
(3) Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length P.C.B. mounted



RATINGS AND CHARACTERISTIC CURVES G1A AND G1M

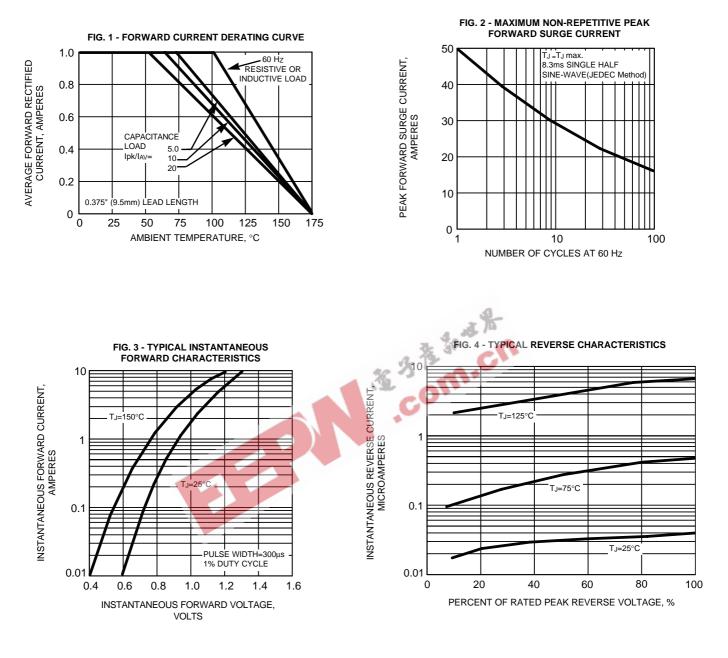


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

