

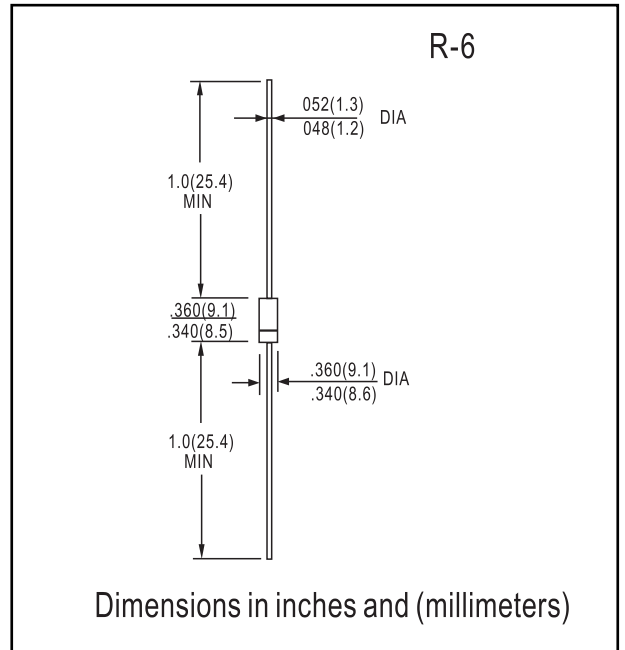


FEATURES

- Plastic package has Underwrites Laboratory Flammability Classification 94V-0
- Fast switching speed
- Diffused junction
- High current capability
- High temperature soldering guaranteed : 250°C/10 seconds, 0.375"(9.5mm) lead length, 5 lbs.(2.3kg) tension.

Mechanical Data

- Case : P-6 molded plastic body
- Terminals : Plated axial lead solderable per MIL-STD-750, method 2026
- Polarity : Color band denotes cathode end
- Mounting Position : Any
- Weight : 0.07 ounce, 2.1 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Ratings at 25°C ambient temperature unless otherwise specified, Single phase, half wave 60Hz, resistive or inductive load. For capacitive load, derate by 20%)

	Symbols	MR820	MR821	MR822	MR824	MR826	MR828	Units
Maximum recurrent peak reverse voltage	VRRM	50	100	200	400	600	800	Volts
Maximum RMS voltage	VRMS	35	70	140	280	420	560	Volts
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	Volts
Maximum average forward rectified current 0.375" (9.5mm) lead length at TA=55°C	IAV	5.0						Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	300.0						Amps
Maximum instantaneous forward voltage at 5.0A	VF	1.1						Volts
Maximum DC reverse current at rated DC blocking voltage	TA=25°C	10						μA
	TA=100°C	100						
Maximum reverse recovery time (Note 1)	Trr	120						ns
Maximum thermal resistance	RθJA	10						°C/W
Typical junction capacitance (Note 2)	CJ	300						pF
Operating junction and storage temperature range	TJ TSTG	-55 to +150						°C

Notes:

- (1) Test conditions: IF=0.5A, IR=1.0A, Irr=0.25A.
- (2) Measured at 1MHz and applied reverse voltage of 4.0 Volts.

RATINGS AND CHARACTERISTIC CURVES MR820 THRU MR828

FIG. 1 -REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

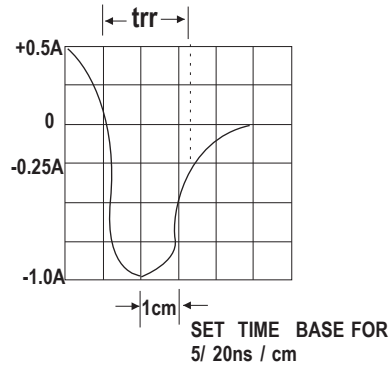
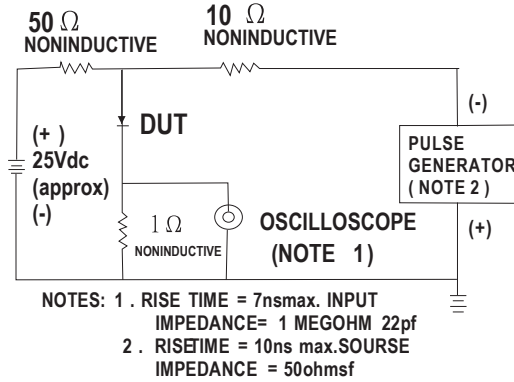


FIG. 2 MAXIMUM CURRENT DERATING CURVE

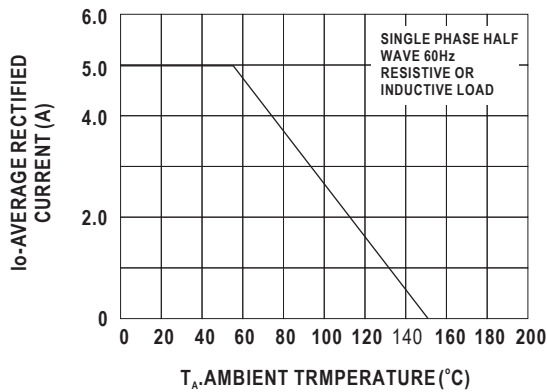


FIG. 3 MAXIMUM FORWARD SURGE NUMBER OF CYCLES

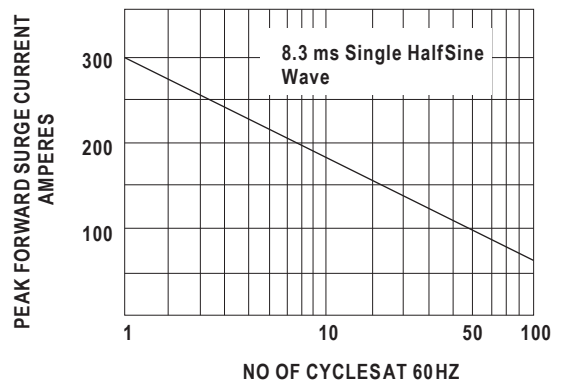


FIG. 4 TYPICAL JREVERSE CHARACTERISTICS

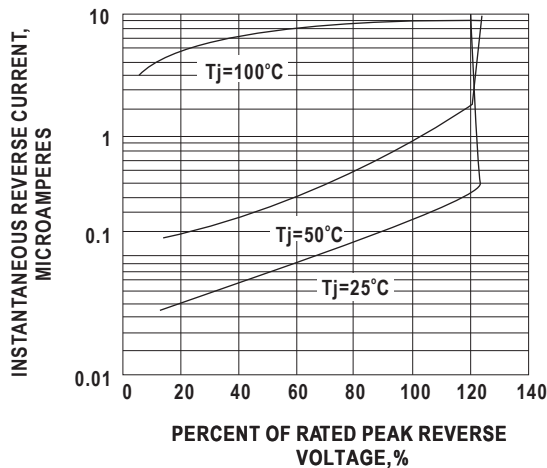


FIG. 5 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

