FAST RECOVERY RECTIFIER

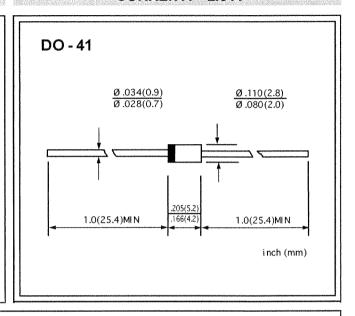
VOLTAGE RANGE: 50 --- 1000 V CURRENT: 2.0 A

FEATURES

- ♦ Low cost
- ♦ Diffused junction
- ♦ Low forward voltage drop
- High current capability

MECHANICAL DATA

- ♦ Polarity: Color band denotes cathode
- ♦ Weight: 0.012 ounces, 0.34 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate by 20%.

		MR 810	MR 811	MR 812	MR 814	MR 816	MR 817	MR 818	UNITS
Maximum recurrent peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum average forw ard rectified current 9.5mm lead length, @T _A =75°C	I _{F(AV)}	2.0							А
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load @T _J =125℃	I _{FSM}	30.0							А
Maximum instantaneous forward voltage @ 2.0 A	V _F	1.2							V
Maximum reverse current $@T_A = 25 °$ at rated DC blocking voltage $@T_A = 100 °$	I _R	5.0 100.0							μА
Maximum reverse recovery time (Note1)	t _{rr}	750							ns
Typical junction capacitance (Note2)	Сј	18							pF
Typical thermal resistance (Note3)	R _{eJA}	45						°C/W	
Operating junction temperature range	TJ	- 55 +150					°C		
Storage temperature range	T _{STG}	- 55 +150						°C	

NOTE:1. Measured with I_F=0.5A, I_R=1A, I_{rr}=0.25A.

- 2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- 3. Thermal resistance from junction to ambient.