PLASTIC SILICON RECTIFIERS

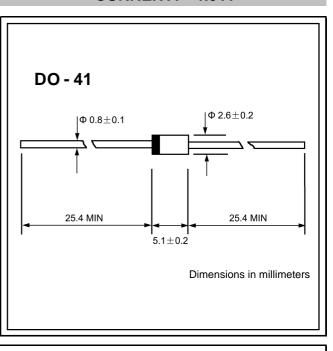
VOLTAGE RANGE: 50 --- 1000 V CURRENT: 1.0 A

FEATURES

- ♦ Low cost
- ♦ Diffused junction
- ♦ Low forward voltage drop
- High current capability
- Easily cleaned with Freon, Alcohol, Isopropanol and similar solvents
- ♦ The plastic material carries U/L recognition 94V-0

MECHANICAL DATA

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



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%.

		ERB12 -01	ERB12 -02	ERA12 -04	ERB12 -06	ERB12 -10	UNITS
Maximum recurrent peak reverse voltage	V_{RRM}	100	200	400	600	1000	V
Maximum RMS voltage	V_{RMS}	70	140	280	420	700	V
Maximum DC blocking voltage	V _{DC}	100	200	400	600	1000	V
Maximum average forw ard rectified current 9.5mm lead length, @T _A =75℃	I _{F(AV)}	1.0					А
Peak forw ard surge current 8.3ms single half-sine-wave superimposed on rated load @T _J =125°C	I _{FSM}	60.0					А
Maximum instantaneous forw ard voltage @ 1.0 A	V _F	1.1					V
Maximum reverse current $@T_A=25^{\circ}C$ at rated DC blocking voltage $@T_A=100^{\circ}C$	I _R	5.0 50.0					μА
Typical junction capacitance (Note1)	CJ	15					pF
Typical thermal resistance (Note2)	$R_{\theta JA}$	50					°C/W
Operating junction temperature range	TJ	- 55 + 150					°C
Storage temperature range	T _{STG}	- 55 +150					$^{\circ}$

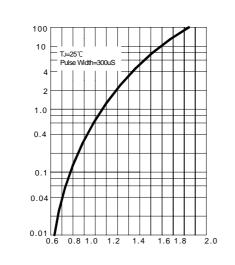
NOTE: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2. Thermal resistance from junction to ambient.

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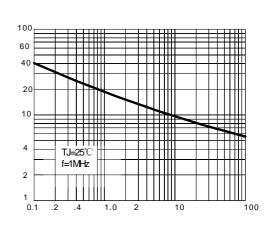
FIG.1 - TYPICAL FORWARD CHARACTERISTIC

INSTANTANEOUS FORWARD CURRENT AMPERES



INSTANTANEOUS FORWARD VOLTAGE, VOLTS

FIG.2 - TYPICAL JUNCTION CAPACITANCE

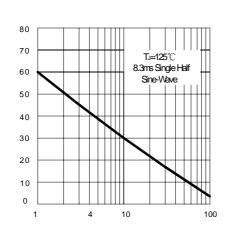


JUNCTION CAPACITANCE, pF

REVERSE VOLTAGE, VOLTS

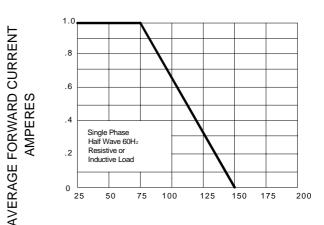
FIG.3 - PEAK FORWARD SURGE CURRENT

PEAK FORWARD SURGE CURRENT AMPERES



NUMBER OF CYCLES AT 60Hz

FIG.4 - FORWARD DERATING CURVE



2.