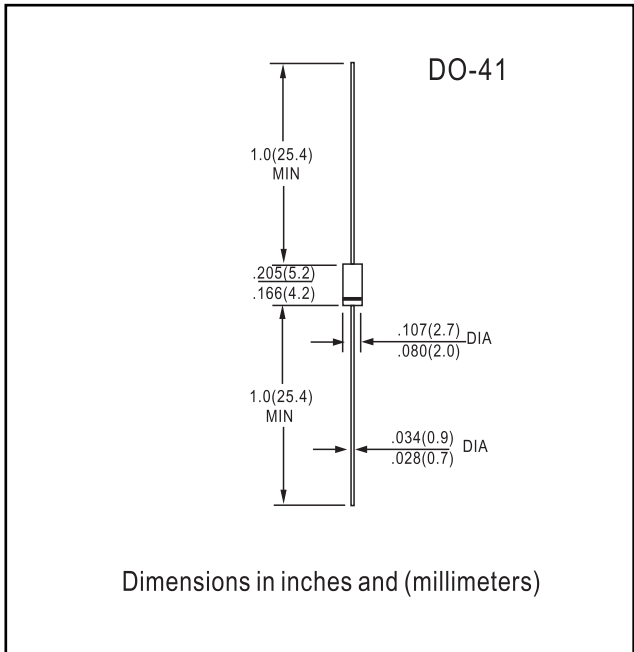




- FEATURES**
- Low cost
 - Diffused junction
 - Low leakage
 - Low forward voltage drop
 - High current capability
 - Easily cleaned with Freon, Alcohol, Isopropanol and similar solvents
 - The plastic material carries U/L recognition 94V-0



MECHANICAL DATA

Case: JEDEC DO-41, molded plastic
 Terminals: Axial lead, solderable per MIL-STD-202, Method 208
 Polarity: Color band denotes cathode
 Weight: 0.012 ounces, 0.34 grams
 Mounting position: Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C 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 forward rectified current 9.5mm lead length, @ $T_A=75^\circ C$	$I_{F(AV)}$	1.0					A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load @ $T_J=125^\circ C$	I_{FSM}	60.0					A
Maximum instantaneous forward 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					μA
Typical junction capacitance (Note1)	C_J	15					pF
Typical thermal resistance (Note2)	$R_{\theta JA}$	50					$^\circ C/W$
Operating junction temperature range	T_J	- 55 ---- + 150					$^\circ C$
Storage temperature range	T_{STG}	- 55 ---- + 150					$^\circ C$

NOTE: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
 2. Thermal resistance from junction to ambient.



RATINGS AND CHARACTERISTIC CURVES ERB12-01 THRU ERB12-10

FIG.1 – TYPICAL FORWARD CHARACTERISTIC

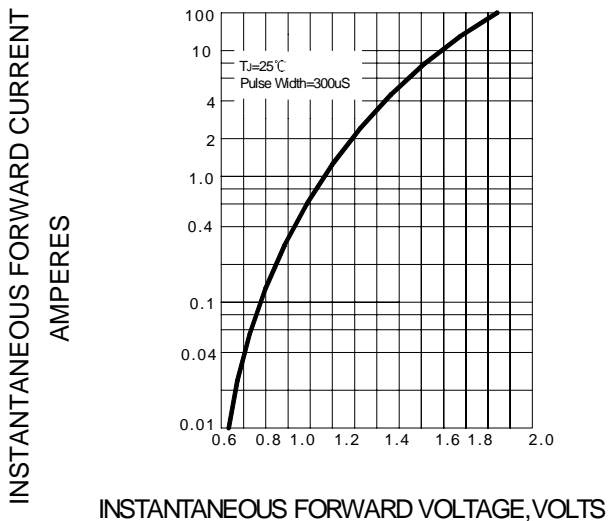


FIG.2 – TYPICAL JUNCTION CAPACITANCE

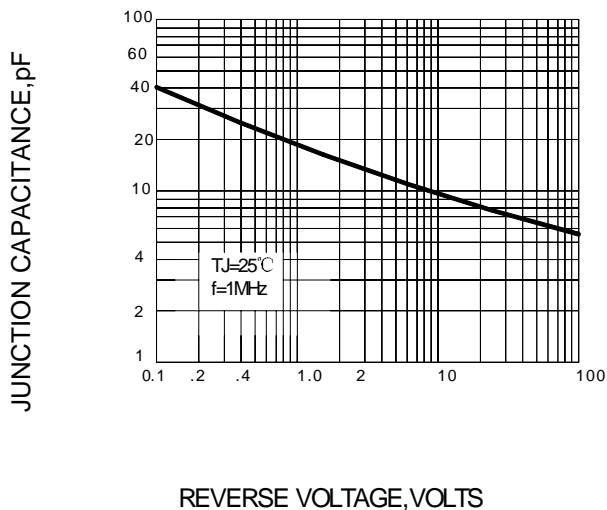


FIG.3 – PEAK FORWARD SURGE CURRENT

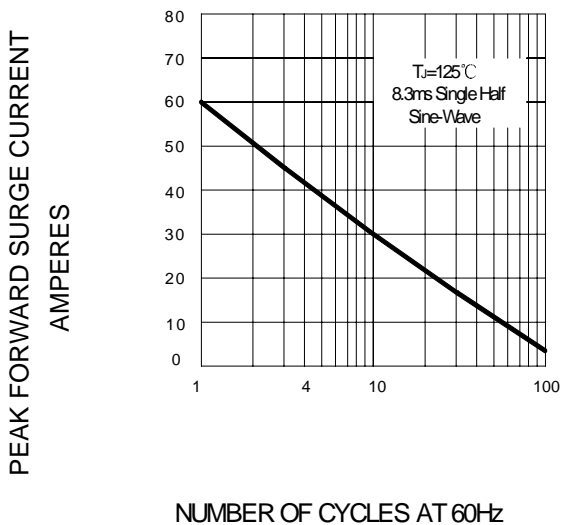


FIG.4 – FORWARD DERATING CURVE

