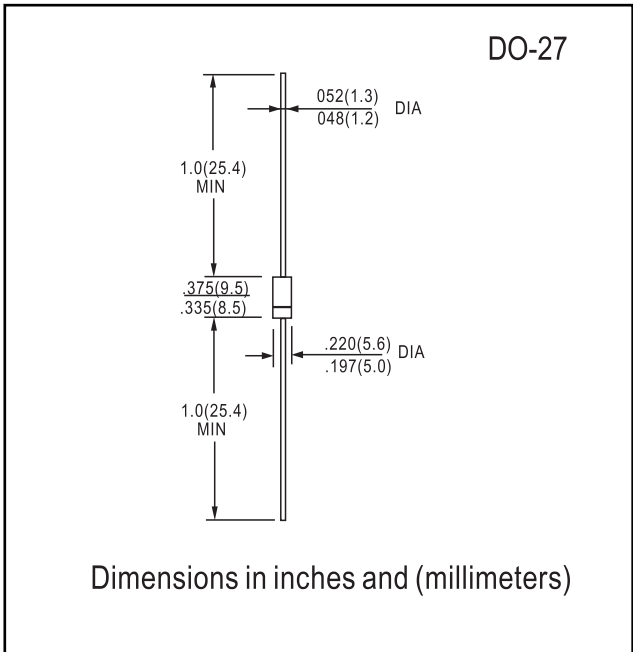




- FEATURES**
- Low cost
  - Diffused junction
  - Low leakage
  - Low forward voltage drop
  - High current capability
  - Easily cleaned with Freon, Alcohol, Isopropanol and similar solvents
  - The plastic material carries U/L recognition 94V-0



**MECHANICAL DATA**

Case: JEDEC DO--27, molded plastic  
 Terminals: Axial lead, solderable per MIL-STD-202, Method 208  
 Polarity: Color band denotes cathode  
 Weight: 0.041 ounces, 1.15 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%.

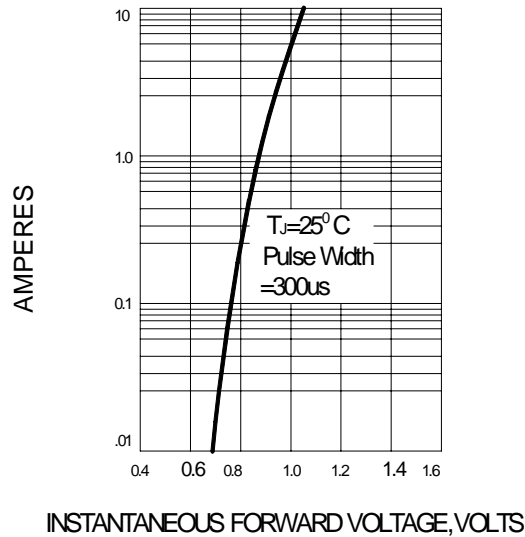
		ERD03 -02	ERD03 -04	UNITS
Maximum recurrent peak reverse voltage	$V_{RRM}$	200	400	V
Maximum RMS voltage	$V_{RMS}$	140	280	V
Maximum DC blocking voltage	$V_{DC}$	200	400	V
Maximum average forward rectified current 9.5mm lead length, @ $T_A=75^\circ C$	$I_{F(AV)}$	3.0		A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load @ $T_J=125^\circ C$	$I_{FSM}$	200.0		A
Maximum instantaneous forward voltage @ 3.0 A	$V_F$	1.0		V
Maximum reverse current @ $T_A=25^\circ C$ at rated DC blocking voltage @ $T_A=100^\circ C$	$I_R$	10.0 100.0		$\mu A$
Typical junction capacitance (Note1)	$C_J$	35		pF
Typical thermal resistance (Note2)	$R_{\theta JA}$	20		$^\circ C/W$
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.

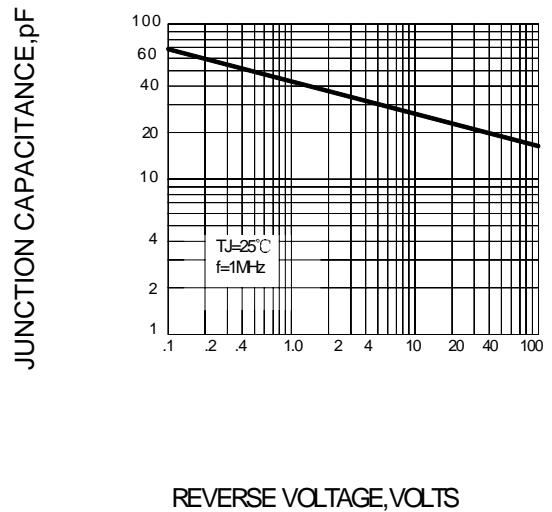


**RATINGS AND CHARACTERISTIC CURVES ERD32-02 THRU ERD32-04**

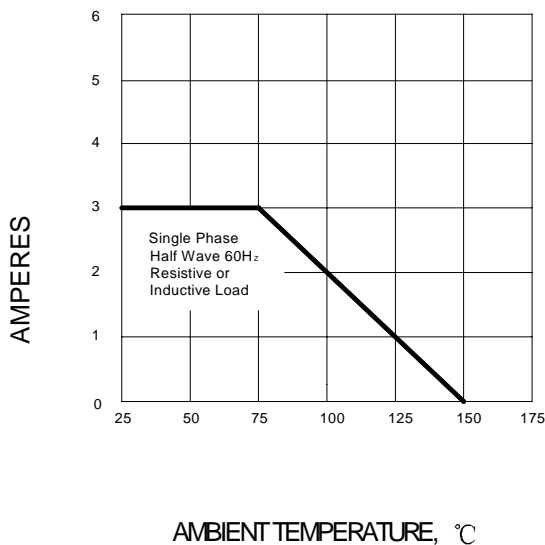
**FIG.1 – TYPICAL FORWARD CHARACTERISTIC**



**FIG.2 – TYPICAL JUNCTION CHARACTERISTICS**



**FIG.3 – FORWARD DERATING CURVE**



**FIG.4 – PEAK FORWARD SURGE CURRENT**

