

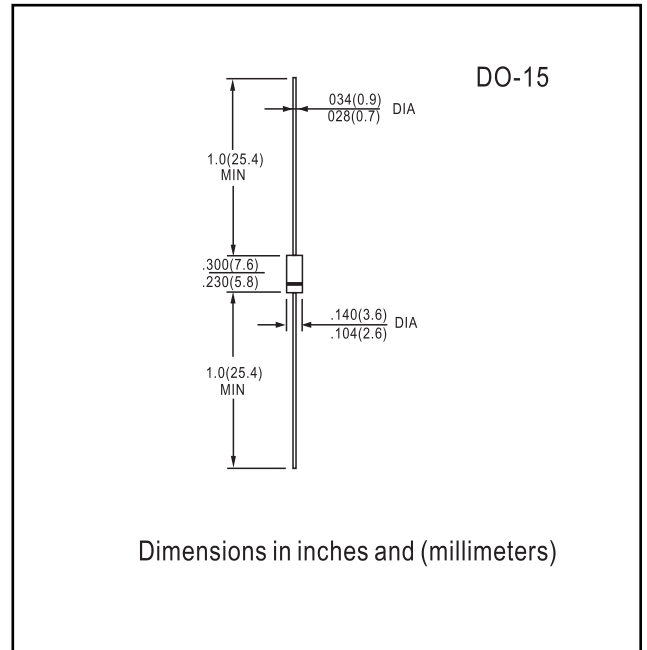


FEATURES

- 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--15,molded plastic  
 Terminals: Axial lead ,solderable per MIL- STD-202,Method 208  
 Polarity: Color band denotes cathode  
 Weight: 0.014 ounces,0.39 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%.

		ERC04-02F	ERC04-04F	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, @ $T_A=75^\circ C$	$I_{F(AV)}$	1.5		A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load @ $T_J=125^\circ C$	$I_{FSM}$	100.0		A
Maximum instantaneous forward voltage @ 1.5 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		$\mu A$
Typical junction capacitance (Note1)	$C_J$	20		pF
Typical thermal resistance (Note2)	$R_{\theta JA}$	40		$^\circ C/W$
Operating junction temperature range	$T_J$	-55----+150		$^\circ C$
Storage temperature range	$T_{STG}$	-55----+150		$^\circ C$

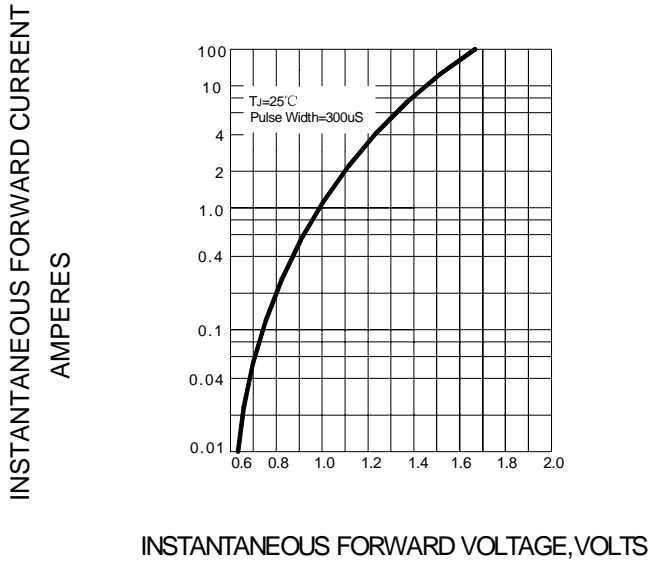
NOTE: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2. Thermal resistance from junction to ambient.

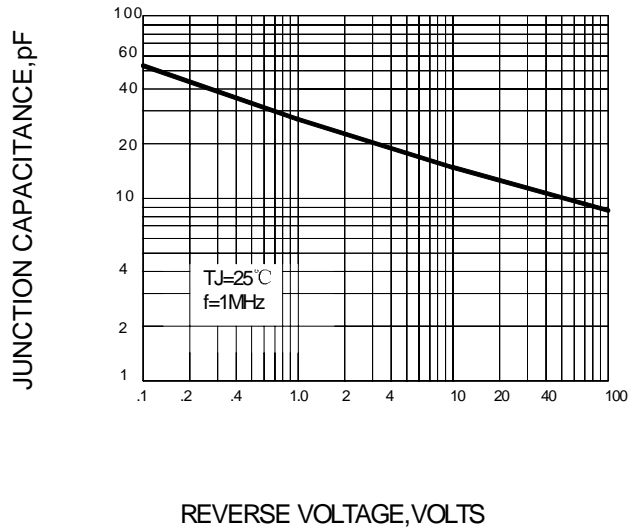


**RATINGS AND CHARACTERISTIC CURVES ERC04-02F THRU ERC04-04F**

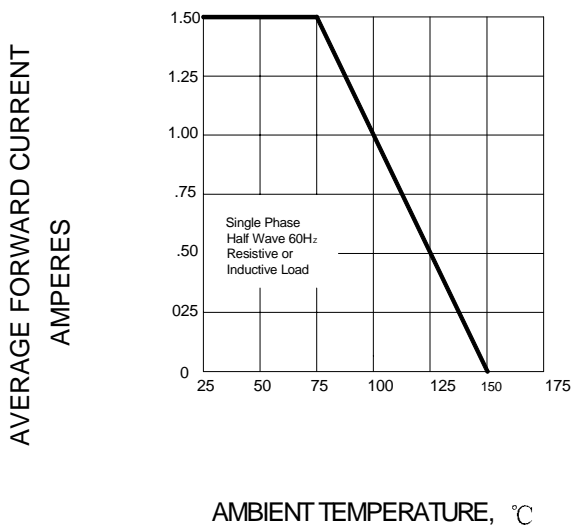
**FIG.1 – FORWARD CHARACTERISTIC**



**FIG.2 – JUNCTION CHARACTERISTICS**



**FIG.3 – CURRENT DERATING CURVE**



**FIG.4 –SURGE CAPABILITY**

