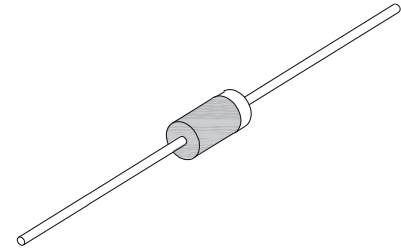


## 2.0A Standard Rectifier

### Features

- Low Forward Voltage Drop
- High Current Capability
- High Surge Current Capability
- High Reliability
- High Temperature Soldering Guaranteed 260°C/10 seconds  
/.375" (9.5mm) lead length, 5lbs (2.3kg) tension
- RoHS compliant



DO-15

### Mechanical Data

<b>Case:</b>	Molded Plastic
<b>Epoxy:</b>	Meets UL 94V-0 flammability rating
<b>Terminals:</b>	Axial leads, solderable per MIL-STD-202, Method 208
<b>Polarity:</b>	Cathode indicated by color band
<b>Weight:</b>	0.014 Ounce, 0.39 gram

### Maximum Ratings ( $T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	T2A05	T2A10	T2A20	T2A40	T2A60	T2A80	T2A100	T2A130	Unit
<b>VRRM</b>	Maximum Repetitive Peak Reverse Voltage	50	100	200	400	600	800	1000	1300	V
<b>VRMS</b>	Maximum RMS Voltage	35	70	140	280	420	560	700	910	V
<b>VDC</b>	Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	1300	V
<b>IF(AV)</b>	Maximum Average Forward Rectified Current @ $T_a=75^{\circ}C$	2.0								A
<b>IFSM</b>	Peak Forward Surge Current (Note1)	70								A
<b>TJ</b>	Operating Junction Temperature Range	-55 to +125								°C
<b>TSTG</b>	Storage Temperature Range	-55 to +150								°C

### Electrical Characteristics ( $T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	T2A05	T2A10	T2A20	T2A40	T2A60	T2A80	T2A100	T2A130	Unit
$V_F$	Maximum Forward Voltage @ $I_F=2.0A$	1.0								V
$I_R$	Maximum DC Reverse Current at Rated DC Blocking Voltage	$T_A=25^{\circ}C$				5.0				$\mu A$
		$T_A=100^{\circ}C$				50				$\mu A$
$C_J$	Typical Junction Capacitance (Note2)	20								pF
$R_{\theta-JA}$	Maximum Thermal Resistance (Note3)	50								$^{\circ}C/W$

- Note:**
1. 8.3ms single half sine-wave superimposed on rated load (JEDEC method)
  2. Measured at 1MHz and applied reverse voltage of 4.0Volts D.C.
  3. Thermal resistance from junction to ambient at .375" (9.5mm) lead length.

### Typical Characteristics Curves

Fig.1- Forward Current Derating Curve

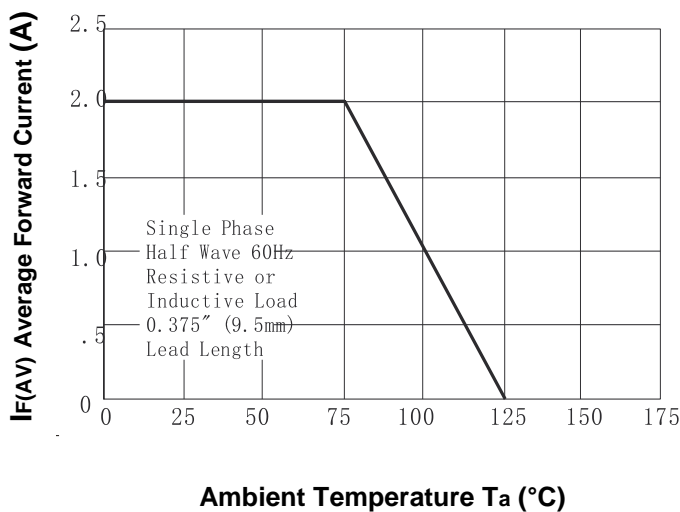


Fig.2-Max. Non-Repetitive Forward Surge Current

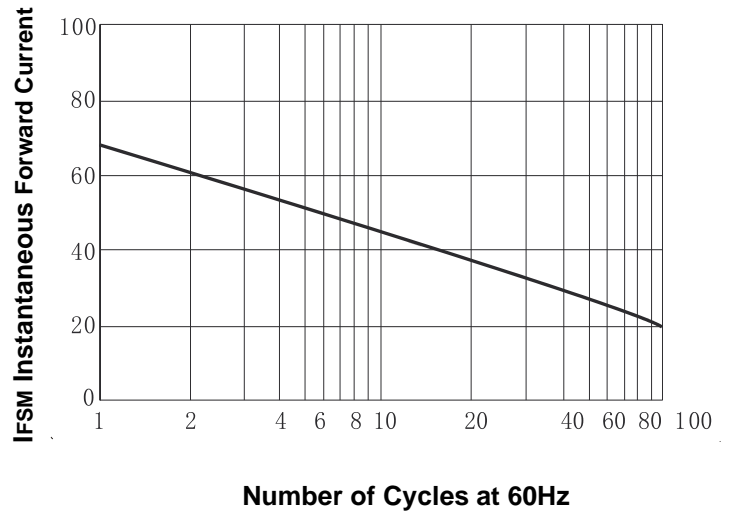


Fig.3-Typical Instantaneous Forward Characteristics

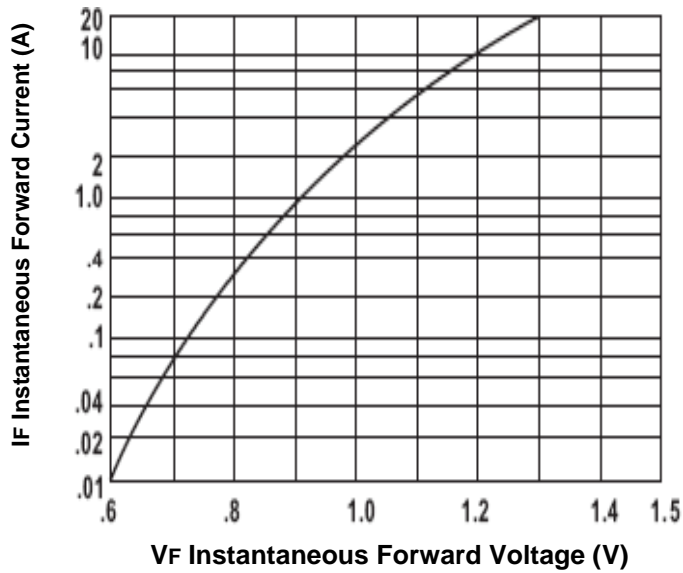


Fig.4- Typical Reverse Characteristics

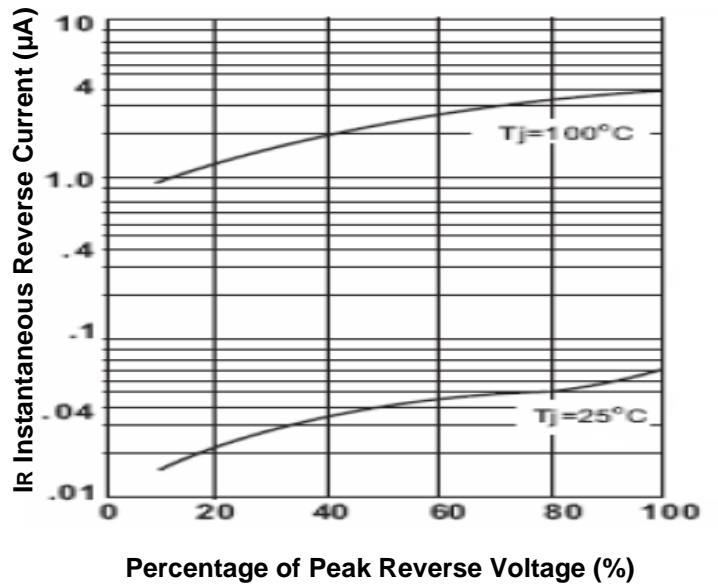
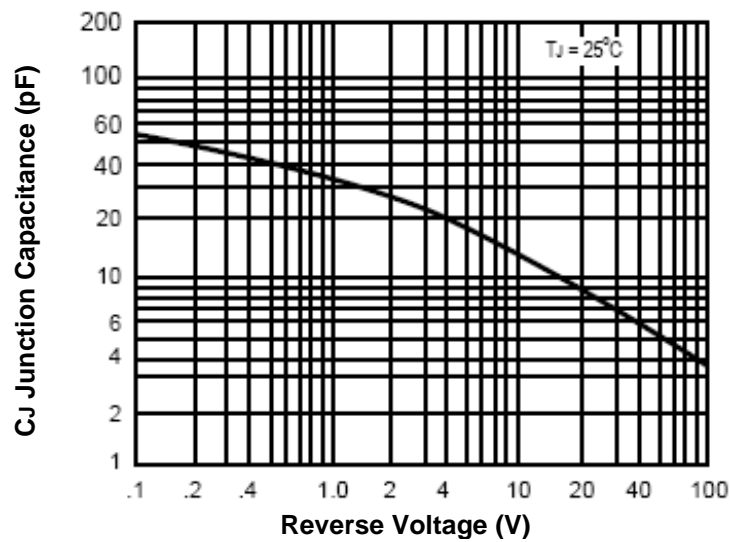
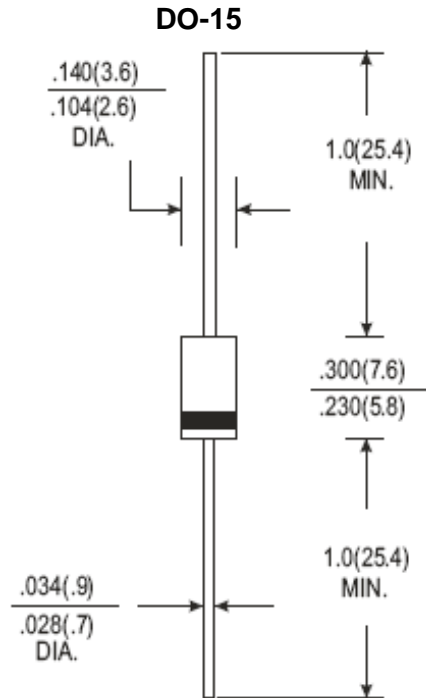


Fig.5-Typical Junction Capacitance



### Dimensions in inches (mm)



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