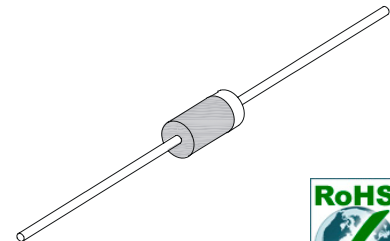


## 2.0A Standard Rectifier

### 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>V<sub>RRM</sub></b>	Maximum Repetitive Peak Reverse Voltage	50	100	200	400	600	800	1000	1300	V
<b>V<sub>RMS</sub></b>	Maximum RMS Voltage	35	70	140	280	420	560	700	910	V
<b>V<sub>DC</sub></b>	Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	1300	V
<b>I<sub>F(AV)</sub></b>	Maximum Average Forward Rectified Current @ $T_a=75^{\circ}C$	2.0								A
<b>I<sub>FSM</sub></b>	Peak Forward Surge Current (Note1)	70								A
<b>T<sub>J</sub></b>	Operating Junction Temperature Range	-55 to +125								$^{\circ}C$
<b>T<sub>STG</sub></b>	Storage Temperature Range	-55 to +150								$^{\circ}C$

## 2.0A Standard Rectifier

### T2A05 - T2A130

#### 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

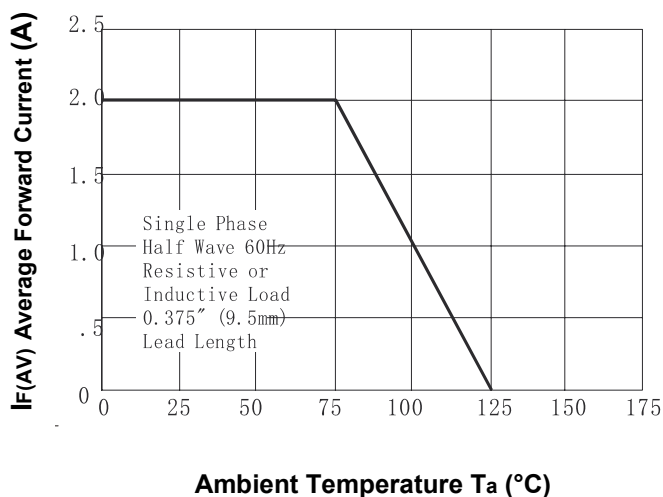
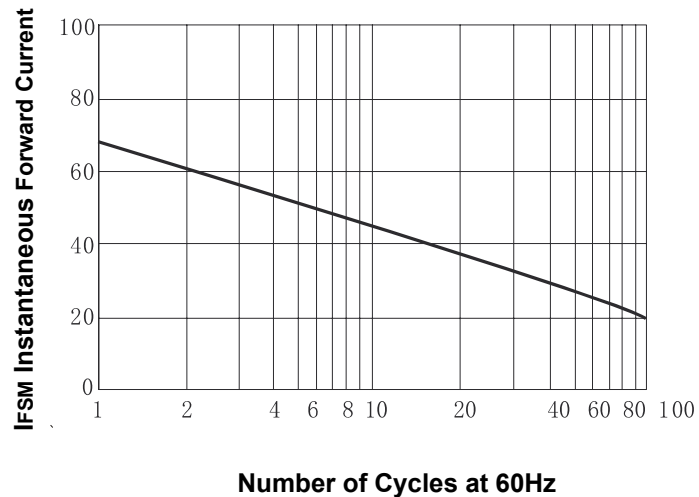


Fig.2-Max. Non-Repetitive Forward Surge Current



## 2.0A Standard Rectifier

### T2A05 - T2A130

Fig.3-Typical Instantaneous Forward Characteristics

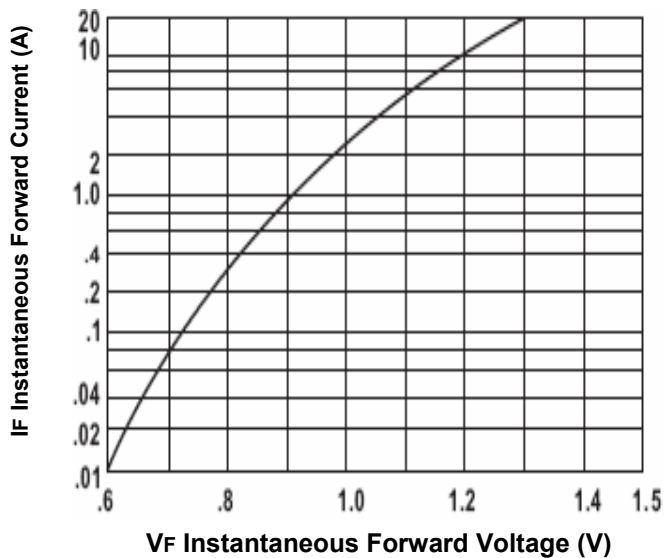


Fig.4- Typical Reverse Characteristics

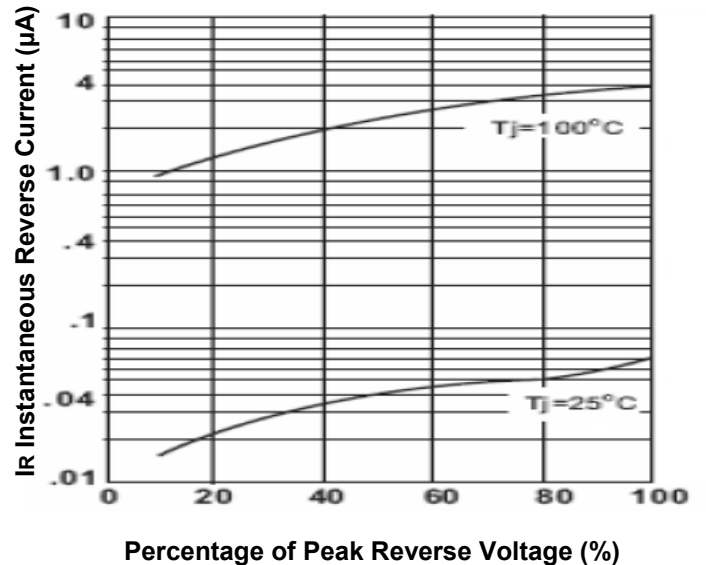
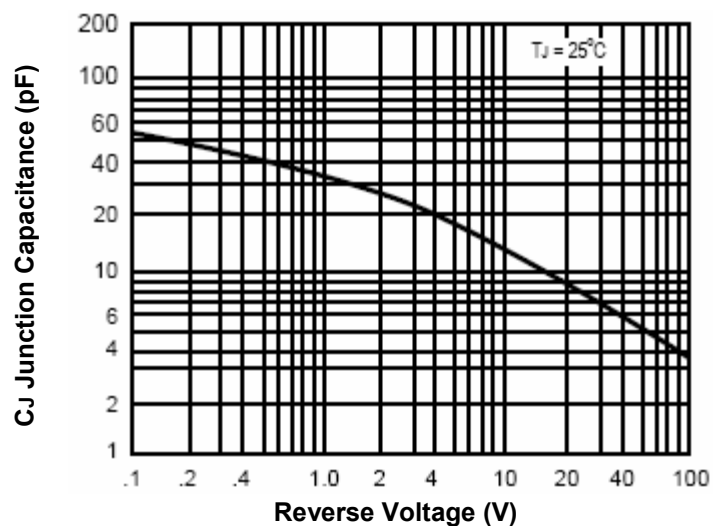


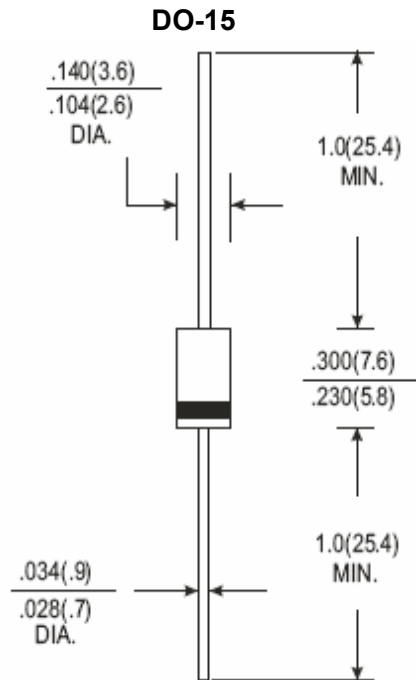
Fig.5-Typical Junction Capacitance



## 2.0A Standard Rectifier

T2A05 - T2A130

### Dimensions in inches (mm)



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