



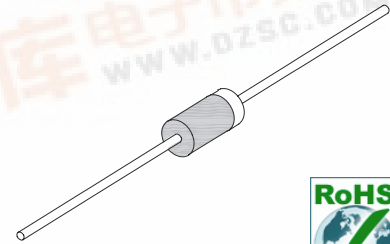
2.0A Standard Rectifier

T2A05 - T2A130

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

Case:	Molded Plastic
Epoxy:	Meets UL 94V-0 flammability rating
Terminals:	Axial leads, solderable per MIL-STD-202, Method 208
Polarity:	Cathode indicated by color band
Weight:	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
VRRM	Maximum Repetitive Peak Reverse Voltage	50	100	200	400	600	800	1000	1300	V
VRMS	Maximum RMS Voltage	35	70	140	280	420	560	700	910	V
VDC	Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	1300	V
IF(AV)	Maximum Average Forward Rectified Current @ $T_a=75^{\circ}C$	2.0								A
IFSM	Peak Forward Surge Current (Note1)	70								A
TJ	Operating Junction Temperature Range	-55 to +125								$^{\circ}C$
TSTG	Storage Temperature Range	-55 to +150								$^{\circ}C$



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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	$T_A=25^{\circ}C$								μA
		$T_A=100^{\circ}C$								μA
C_J	Typical Junction Capacitance (Note2)	20								pF
$R_{\theta-JA}$	Maximum Thermal Resistance (Note3)	50								$^{\circ}C/W$

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

Typical Characteristics Curves

Fig.1- Forward Current Derating Curve

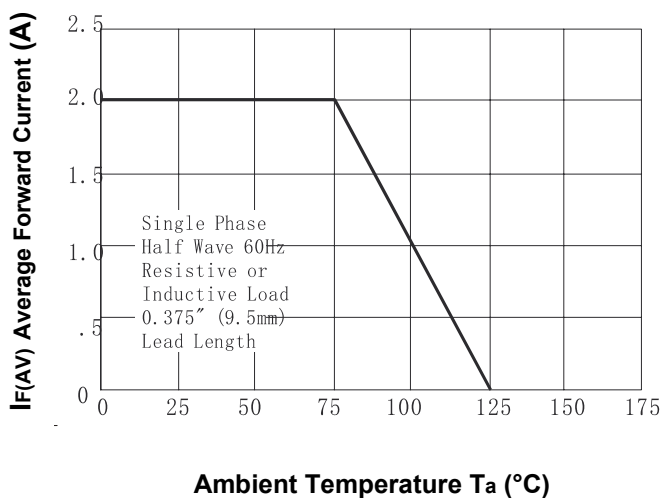
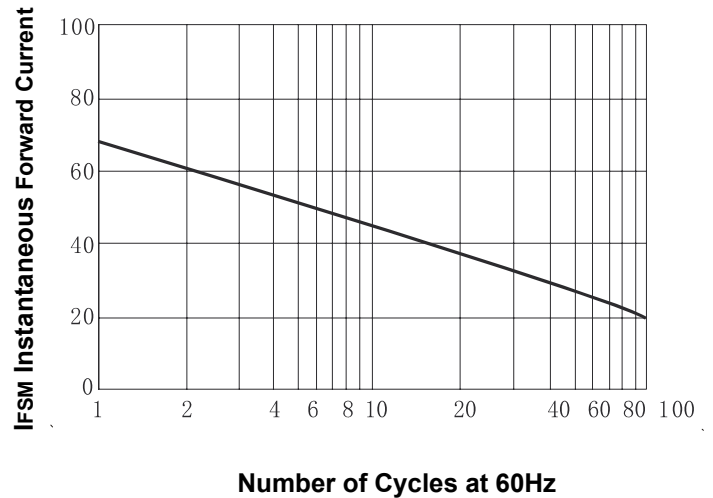


Fig.2-Max. Non-Repetitive Forward Surge Current



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Fig.3-Typical Instantaneous Forward Characteristics



Fig.4- Typical Reverse Characteristics

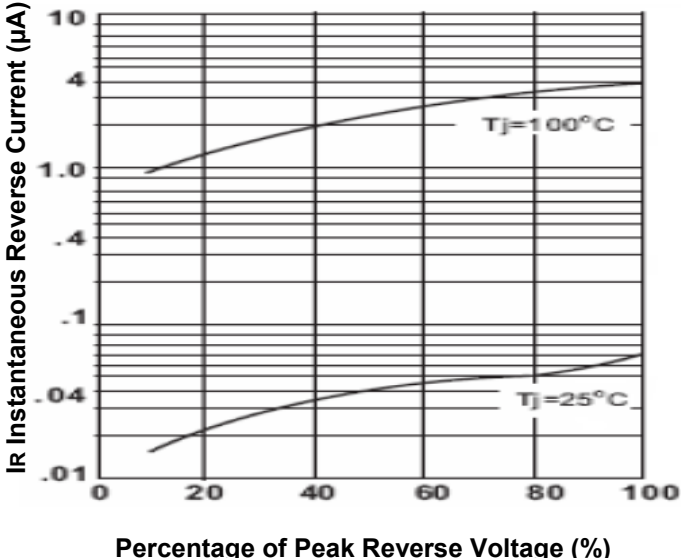
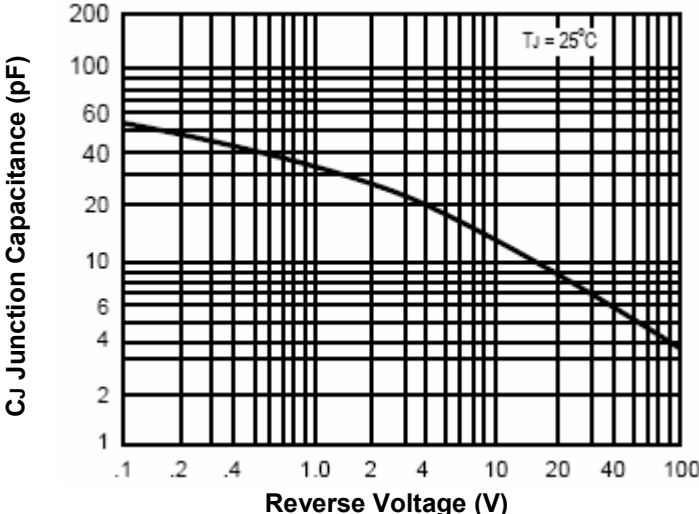


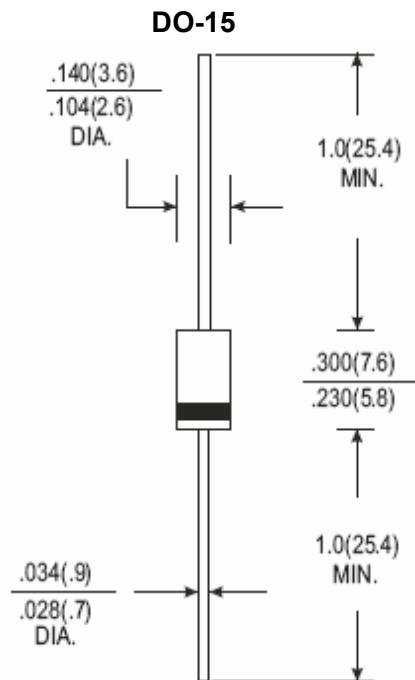
Fig.5-Typical Junction Capacitance



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Dimensions in inches (mm)



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