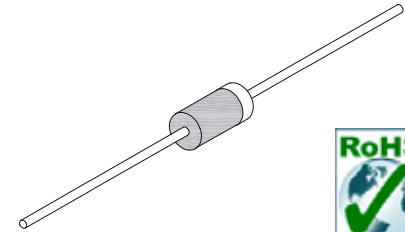


1.5Amp Standard Rectifiers

Features

- Low forward voltage drop
- High reliability
- High forward surge current capability
- High temperature soldering guaranteed: 250°C/10 seconds
1/0375", (9.5mm) lead lengths at 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 guaranteed
Polarity:	Cathode indicated by color band
Mounting position:	Any
Weight:	0.014 ounce, 0.40 gram

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

Symbol	Description	1N5391J05	1N5392J1	1N5393J2	1N5395J4	1N5397J6	1N5398J8	1N5399J10	Unit	Conditions
V_{RRM}	Peak Repetitive Reverse Voltage	50	100	200	400	600	800	1000	V	
V_{RMS}	Max. RMS Voltage	35	70	140	280	420	560	700	V	
V_{DC}	Max. DC Blocking Voltage	50	100	200	400	600	800	1000	V	
I_{F(AV)}	Max. Average Rectified Current	1.5							A	.375" (9.5mm) lead length @ $T_A = 75^{\circ}\text{C}$
I_{FSM}	Peak Forward Surge Current	60							A	8.3 ms single half sine-wave superimposed on rated load
T_J	Operating Junction Range	-55 to 125							$^{\circ}\text{C}$	
T_{STG}	Storage Temperature Range	-55 to 150							$^{\circ}\text{C}$	

1.5Amp Standard Rectifiers

1N5391J05-1N5399J10

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

Symbol	Description	1N5391J05	1N5392J1	1N5393J2	1N5395J4	1N5397J6	1N5398J8	1N5399J10	Unit	Conditions
V_F	Max. Instantaneous Forward Voltage	1.00							V	$I_F(AV)=1.0A$
C_J	Typical Junction Capacitance	15							pF	Measured at 1MHz and Applied Reverse Voltage of 4 Volts DC
I_R	Maximum DC Reverse Current at Rated DC Blocking Voltage	5.0							uA	$T_{amb}=25^{\circ}\text{C}$
		50							uA	$T_{amb}=100^{\circ}\text{C}$
$R_{\theta-JA}$	Max. Thermal Resistance	50							$^{\circ}\text{C/W}$	note 1

Note: 1. Thermal resistance from Junction to Ambient at .375" (9.5mm) lead length.

Typical Characteristics Curves

Fig.1- Forward Current Derating Curve

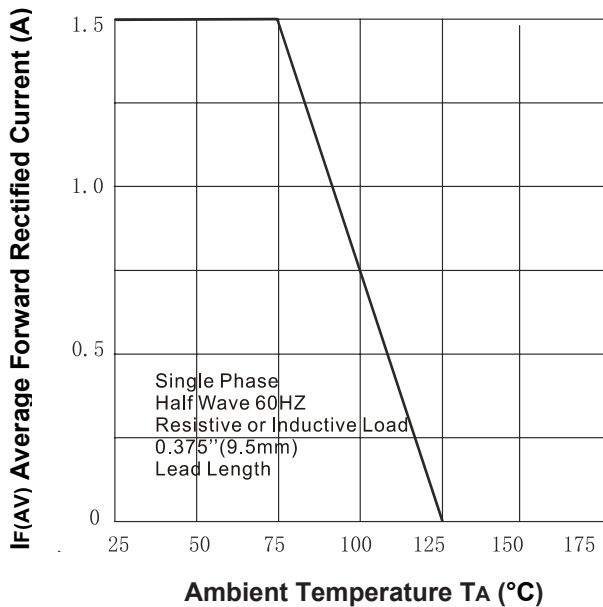
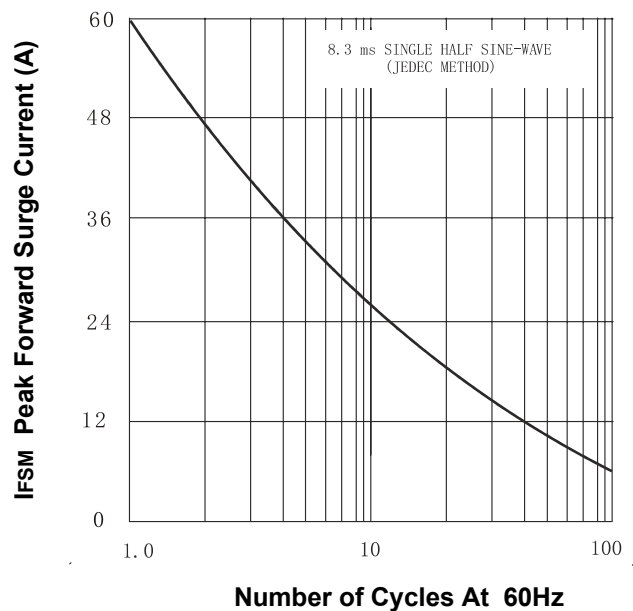


Fig.2- Max. Non-Repetitive Forward Surge Current



1.5Amp Standard Rectifiers

1N5391J05-1N5399J10

Fig.3- Typical Instantaneous Forward Characteristics

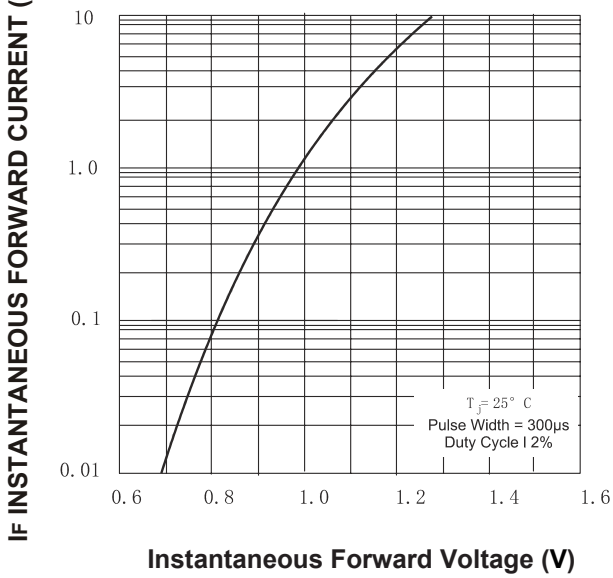


Fig.4- Typical Reverse Characteristics

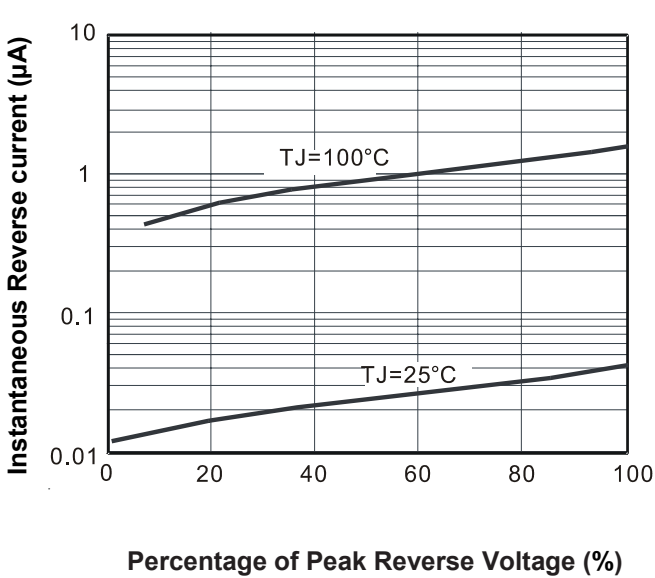
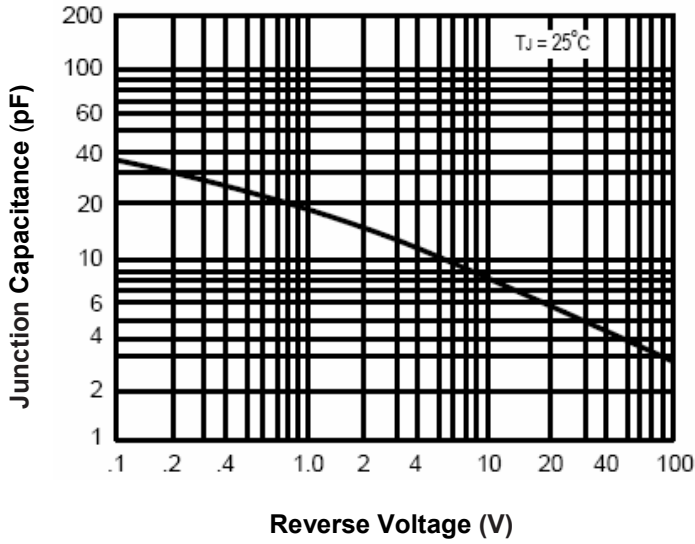


Fig.5- Typical Junction Capacitance

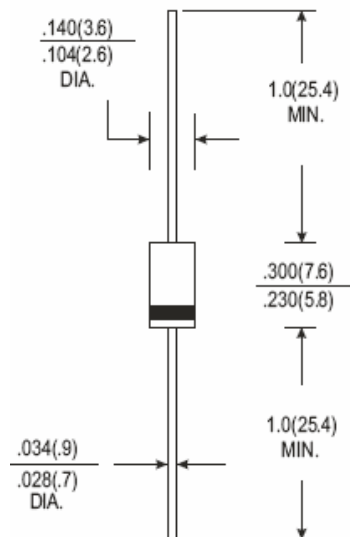


1.5Amp Standard Rectifiers

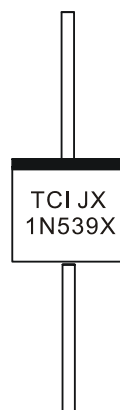
1N5391J05-1N5399J10

Dimensions in inch (mm)

DO-15



Marking Information:

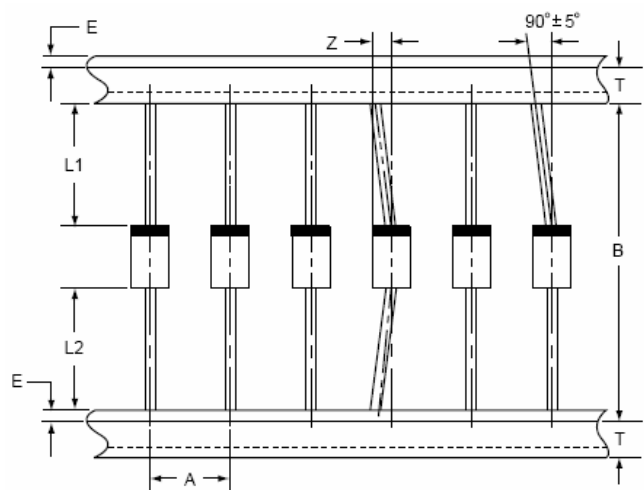


1.5Amp Standard Rectifiers

1N5391J05-1N5399J10

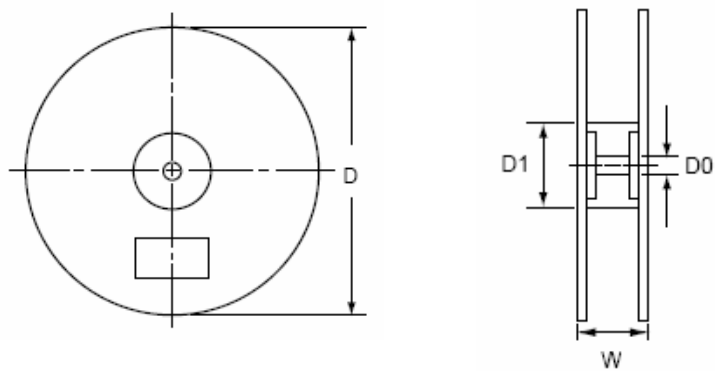
Packing Information:

Carrier Tape Dimensions (in mm)



Components Outline	A	B	L1- L2	T	E	Z
DO-15	5±0.5	52.4±1.5	Max.1.0	6.0±0.4	Max.0.8	Max.1.2

Reel Dimensions (in mm)



D	D0	D1	W
330.0±2.0	30±0.4	85.7±0.3	79.0±1.0

1.5Amp Standard Rectifiers

1N5391J05-1N5399J10

Packing Quantity Information:

Quantity	PCS per Inner Box	PCS per Carton
-TR30 Tape & Reel	4000/Reel	16000
-BL Bulk	500	25000

Carton Size Information:

-TR30 Tape & Reel	-2LF Lead Forming
350 X 350 X 350(in mm)	465 X 230 X 260(in mm)

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