Micro Commercial Components
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1N5391 THRU 1N5399

1.5 Amp Rectifier 50 - 1000 Volts

Features

- Low Leakage Current
- High Current Capability
- Lead Free Finish/RoHS Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Typical Thermal Resistance; 26°C/W Junction To Lead

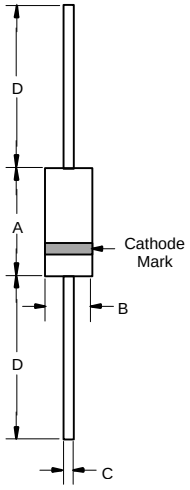
MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
1N5391	1N5391	50V	35V	50V
1N5392	1N5392	100V	70V	100V
1N5393	1N5393	200V	140V	200V
1N5394	1N5394	300V	210V	300V
1N5395	1N5395	400V	280V	400V
1N5396	1N5396	500V	350V	500V
1N5397	1N5397	600V	420V	600V
1N5398	1N5398	800V	560V	800V
1N5399	1N5399	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	1.5A	T_A = 70°C
Peak Forward Surge Current	I_{FSM}	50A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	1.1V	I_{FM} = 1.5A; T_J = 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	5.0µA 50µA	T_A = 25°C T_A = 100°C
Typical Junction Capacitance	C_J	20pF	Measured at 1.0MHz, V_R=4.0V

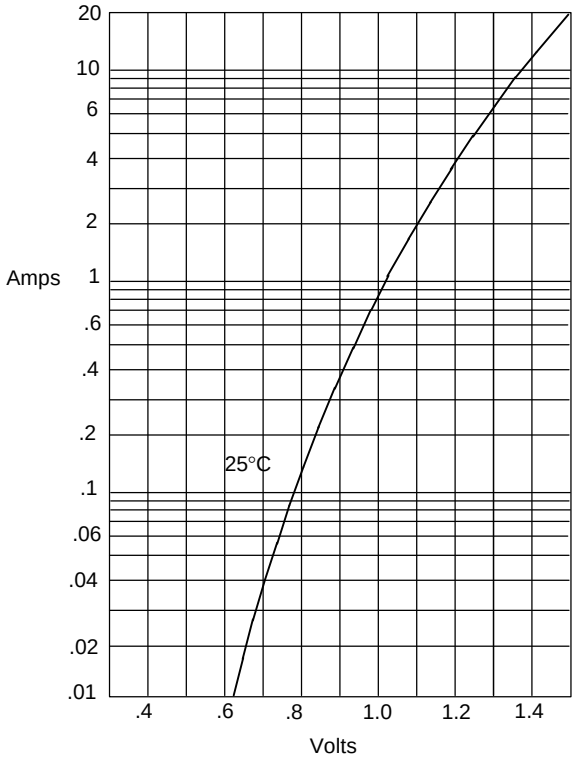
Note: 1. High Temperature Solder Exemption Applied, see EU Directive Annex 7.

DO-15



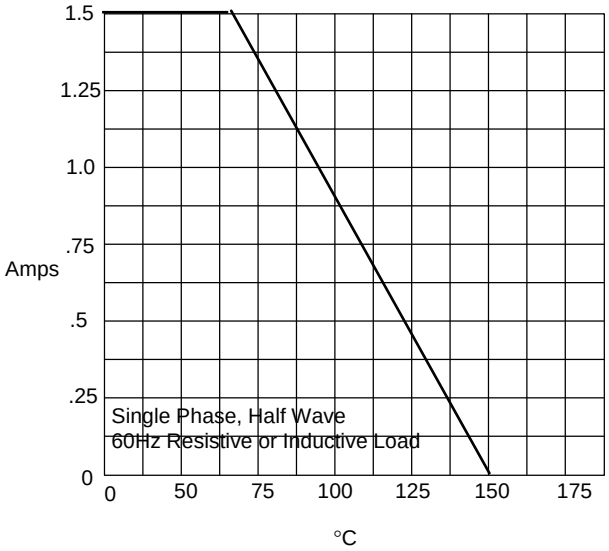
DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	.230	.300	5.80	7.60	
B	.104	.140	2.60	3.60	
C	.026	.034	.70	.90	
D	1.000	---	25.40	---	

Figure 1
Typical Forward Characteristics



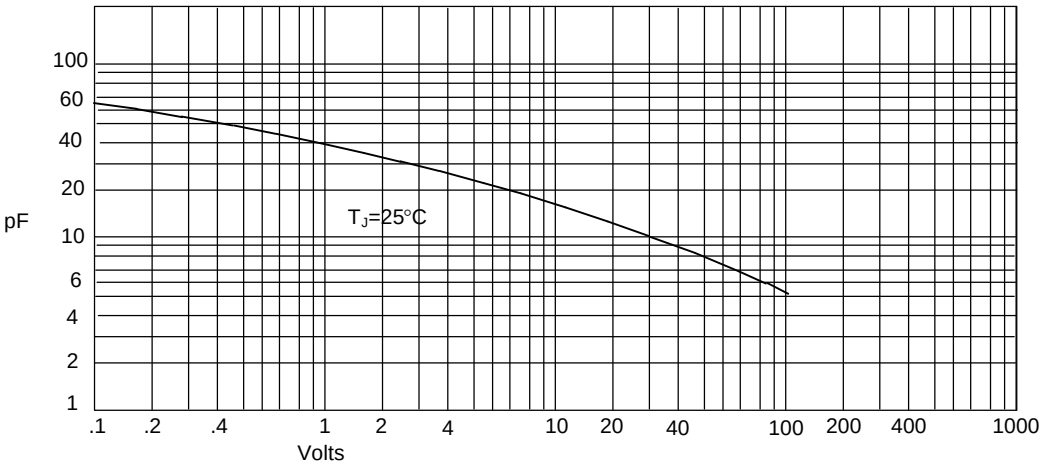
Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts

Figure 2
Forward Derating Curve



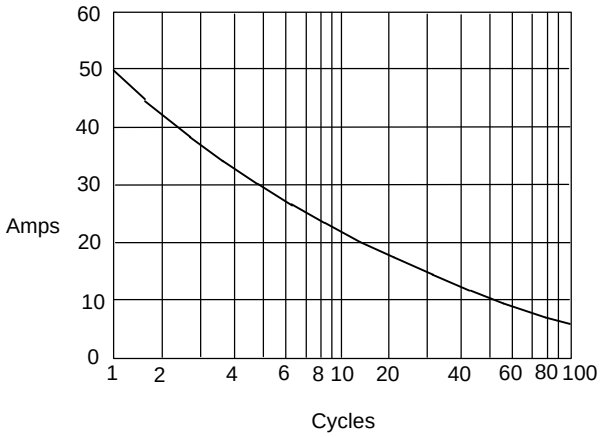
Average Forward Rectified Current - Amperes *versus*
Ambient Temperature -°C

Figure 3
Junction Capacitance



Junction Capacitance - pF *versus*
Reverse Voltage - Volts

Figure 4
Peak Forward Surge Current



Peak Forward Surge Current - Amperes *versus*
Number Of Cycles At 60Hz - Cycles

Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 4Kpcs/Reel
Part Number-BP	Bulk: 25Kpcs/Carton

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