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Part Number	6A1
product family	STANDARD RECOVERY RECTIFIERS
package type	R-6
VRM(PRV)	100V
Ifsm	400A
IF(AV)	6.0A
@Vf	0.95V
@If	6.0A
Trr	
IR	10 $\mu$ A
@VR	100V
Package Qty	Bulk: 200pcs/Box, 4.8K/Ctn ; Tape : 0.5K/Reel, 2K/Ctn;

This product is listed under the following categories where you may find similar products:

[Diodes](#)

[Standard Recovery Rectifiers](#)



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**6A05  
THRU  
6A10**

## Features

- High Current Capability and Low Leakage
- Low Forward Voltage Drop
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1

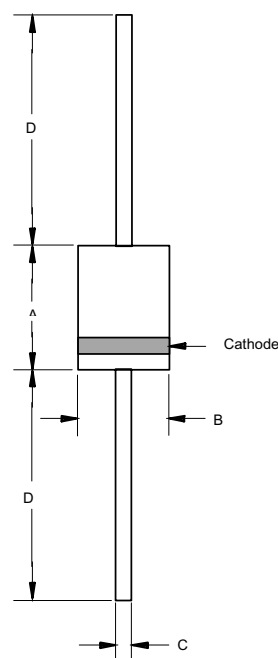
## Maximum Ratings

- Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance; 10°C/W Junction To Ambient

MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
6A05	6A05	50V	35V	50V
6A1	6A1	100V	70V	100V
6A2	6A2	200V	140V	200V
6A4	6A4	400V	280V	400V
6A6	6A6	600V	420V	600V
6A8	6A8	800V	560V	800V
6A10	6A10	1000V	700V	1000V

**6 Amp Rectifier  
50 - 1000 Volts**

R-6



## Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	6.0A	$T_A = 60^\circ\text{C}$
Peak Forward Surge Current	$I_{FSM}$	400A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	$V_F$	0.95V	$I_{FM} = 6.0\text{A}; T_J = 25^\circ\text{C}(\text{Note } 2)$
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	10 $\mu\text{A}$ 100 $\mu\text{A}$	$T_J = 25^\circ\text{C}$ $T_J = 100^\circ\text{C}$
Typical Junction Capacitance	$C_J$	150pF	Measured at 1.0MHz, $V_R=4.0\text{V}$

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

2.Pulse test: Pulse width 300  $\mu\text{sec}$ , Duty cycle 1%

DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	.340	.360	8.60	9.10	
B	.340	.360	8.60	9.10	
C	.048	.052	1.20	1.30	
D	1.000	---	25.40	---	



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## Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel; 500pcs/Reel
(Part Number)-AP	Ammo Packing;450pcs/AmmoBox
(Part Number)-BP	Bulk;200pcs/Box

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