

Micro Commercial Components

ROHS

Micro Commercial Components 20736 Marilla Street Chatsworth

CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939 SR302 THRU SR345

Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Low Forward Voltage Drop and Low Switching Noise
- High Current Capability and High Surge Current Capability
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings

- Operating Temperature: -50°C to +125°C
- Storage Temperature: -50°C to +125°C
- Maximum Thermal Resistance; 40°C/W Junction To Ambient

MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SR302		20V	14V	20V
SR303		30V	21V	30V
SR304		40V	28V	40V
SR345		45V	31.5V	45V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward	$I_{F(AV)}$	3.0A	$T_A = 85^{\circ}C$			
Current	,		,.			
Peak Forward Surge	I _{FSM}	80A	8.3ms, half sine			
Current	'FSIVI	0071	o.omo, nan omo			
Current						
Maximum Instantaneous Forward Voltage	V _F	.50V	$I_{FM} = 3.0A;$ $T_J = 25^{\circ}C(\text{Note 2})$			
Maximum DC						
Reverse Current At	I_R	0.5mA	$T_J = 25^{\circ}C$			
Rated DC Blocking		30mA	T _J = 100°C			
Voltage						
Typical Junction	CJ	180pF	Measured at			
Capacitance	Ů	'	1.0MHz, V _R =4.0V			

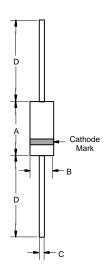
Notes:1.High Temperature Solder Exemption Applied, see EU Directive Annex 7. 2.Pulse test: Pulse width $300~\mu sec$, Duty cycle 1%

DO-201AD

3 Amp Schottky

Barrier Rectifier

20 - 45 Volts



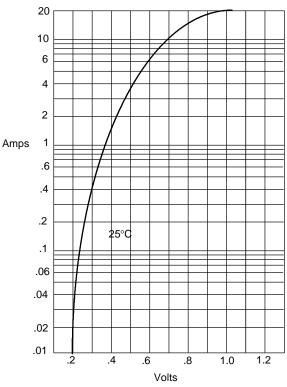
DIMENSIONS						
	INCHES		MM			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.287	.374	7.30	9.50		
В	.189	.208	4.80	5.30		
С	.048	.052	1.20	1.30		
D	1.000		25.40			

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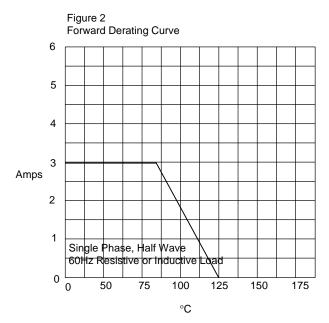
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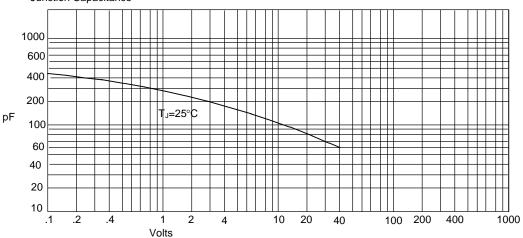


Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts



Average Forward Rectified Current - Amperes/ersus Ambient Temperature -°C

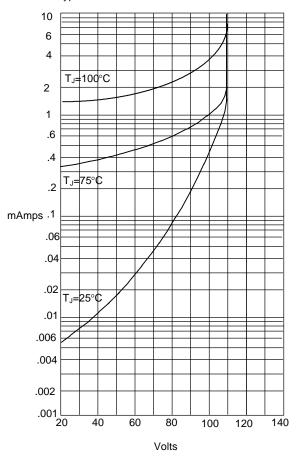




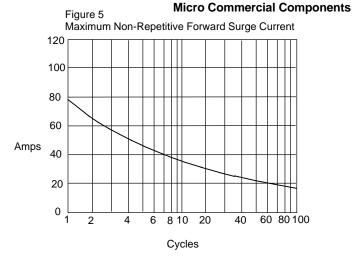
SR302 Thru SR345

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Figure 4
Typical Reverse Characteristics



Instantaneous Reverse Leakage Current - MicroAmperesversus Percent Of Rated Peak Reverse Voltage - Volts



Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles

Average Forward Rectified Current - Amperes/ersus Ambient Temperature -°C



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Ordering Information:

Device	Packing
Part Number-TP	Tape&Reel: 1.2Kpcs/Reel
Part Number-AP	Ammo Packing: 1.2Kpcs/Ammo Box
Part Number-BP	Bulk: 12Kpcs/Carton

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