



Micro Commercial Components



Micro Commercial Components  
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# SR506L

## 5 Amp Low VF Schottky Rectifier 60 Volts

### Features

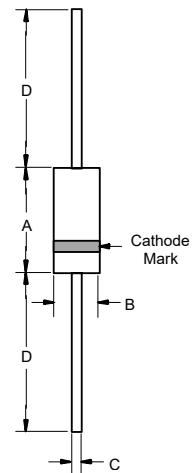
- Halogen free available upon request by adding suffix "-HF"
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- High Surge Current Capability and High Current Capability
- Epoxy meets UL94V-0 flammability rating
- Moisture Sensitivity Level 1

### Maximum Ratings

- Operating Temperature: -50°C to +150°C
- Storage Temperature: -50°C to +150°C
- Typical Thermal Resistance : 20°C/W Junction To Ambient  
17°C/W Junction To Lead

MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SR506L	SR506L	60V	42V	60V

### DO-201AD



### Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	5.0A	$T_a = 105^\circ\text{C}$
Peak Forward Surge Current	$I_{FSM}$	120A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	$V_F$	.49V	$I_{FM} = 5.0\text{A}; T_a = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	0.2mA 50mA	$T_a = 25^\circ\text{C}$ $T_a = 100^\circ\text{C}$
Typical Junction Capacitance	$C_J$	250pF	Measured at 1.0MHz, $V_R=4.0\text{V}$

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

DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	.287	.374	7.30	9.50	
B	.189	.208	4.80	5.30	
C	.048	.052	1.20	1.30	
D	1.000	---	25.40	---	

FIG.1 :  
Forward Derating Curve

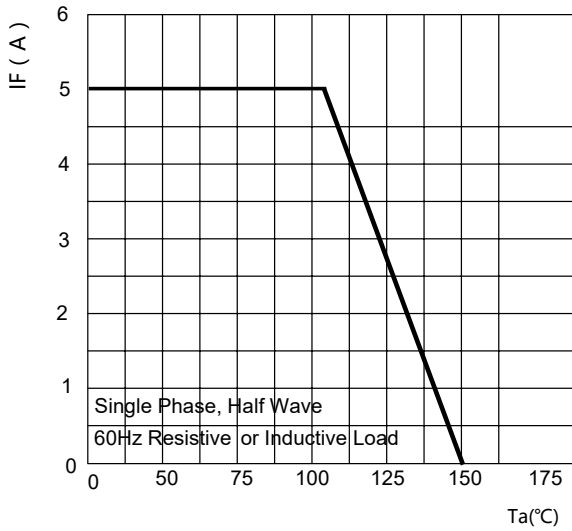


FIG.2 :  
MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

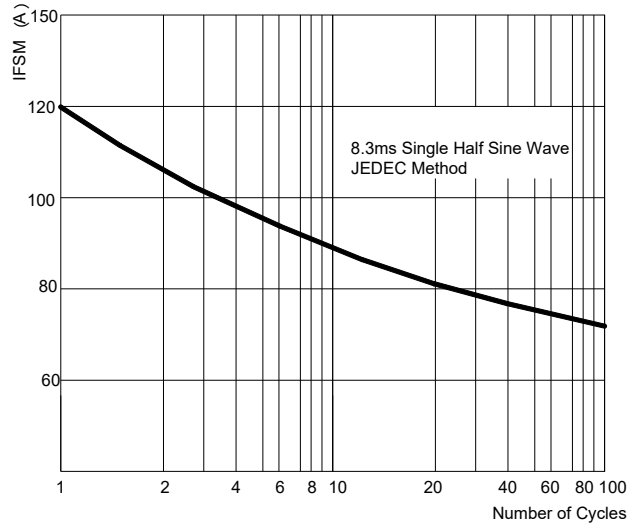


FIG.3  
TYPICAL FORWARD CHARACTERISTICS

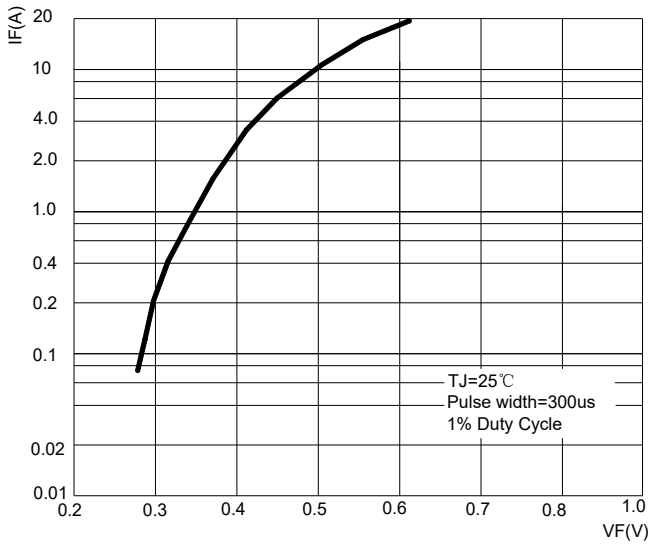
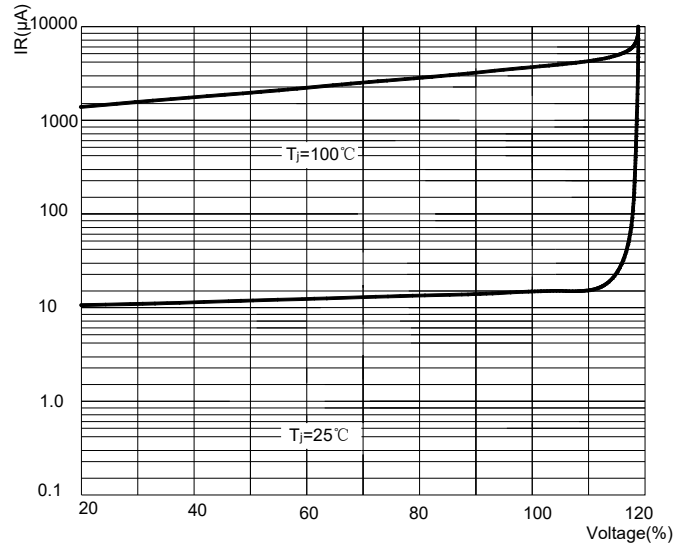


FIG.4  
TYPICAL REVERSE CHARACTERISTICS





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Ordering Information :

Device	Packing
SR506L-TP	Tape&Reel: 1.2Kpcs/Reel
SR506L-AP	Ammo Packing: 1.2Kpcs/Ammo Box
SR506L-BP	Bulk: 12Kpcs/Carton

Note : Adding "-HF" suffix for halogen free, eg. SR506L-TP-HF

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