

Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Low Power Loss For High Efficiency
- Guard Ring Protection
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant (Note 1)("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings @ 25°C (Unless Otherwise Specified)

D	0	Value					l lmit	
Parameter	Symbol	SR 105	SR 106	SR 108	SR 1010	SR 1200	Unit	
Peak Repetitive Reverse Voltage	V_{RRM}							
Working Peak Reverse Voltage	V_{RWM}	50	60	80	100	200	V	
DC Blocking Voltage	V_R							
RMS Reverse Voltage	V _{RMS}	35	42	56	70	140	V	
Average Rectified Forward Current	I _{F(AV)}			1			Α	
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	I _{FSM}	30			Α			
Current Squared Time @1ms≤t≤8.3ms	l ² t	3.735			A ² s			

Marking code

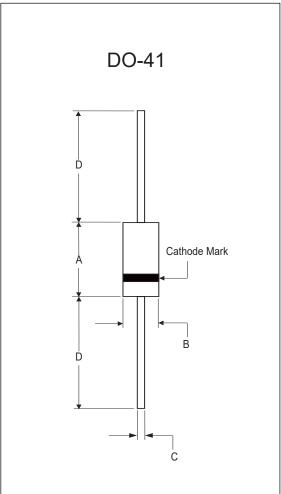
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Part Number	Marking Code
SR105	SR105
SR106	SR106
SR108	SR108
SR1010	SR1010
SR1200	SR1200

Internal Structure

Pin	Description	Simplified Outline	Graphic Symbol
1	Cathode	1	
2	Anode	MCC J XXXXX XXXXX: 2 Marking Code	1 0

Note: 1. High temperature solder exemption applied, see EU directive annex 7a.

1 Amp Schottky Rectifier 50 to 200 Volts



DIMENSIONS						
DIM	DIM INCH		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE	
Α	0.160	0.205	4.10	5.20		
В	0.080	0.107	2.00	2.70	Ф	
С	0.028	0.035	0.71	0.90	Ф	
D	1.000		25.40			



Thermal characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
T_J	Operating Junction Temperature Range		-55		150	°C
T _{stg}	Storage Temperature Range		-55		150	°C
Rth _(J-L)	Thermal Resistance from Junction to Lead			25		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient			75		°C/W

Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage						
SR105~SR106	V _F	I _F =1A;T _J =25°C			0.70	V
SR108~SR1010					0.85	
SR1200					0.90	
Reverse Current						
SR105~SR106	I _R	at Rated V _R ;T _J =25°C			0.1	mA
		at Rated V _R ;T _J =125°C			20	
SR108~SR1200		at Rated V _R ;T _J =25°C			0.01	
		at Rated V _R ;T _J =125°C			5	
Junction Capacitance						
SR105~SR106	CJ	$V_R=4V; f=1MHz; T_J=25$ °C		40		pF
SR108~SR1010				30		
SR1200				20		



Curve Characteristics

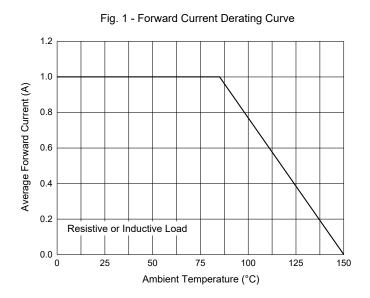
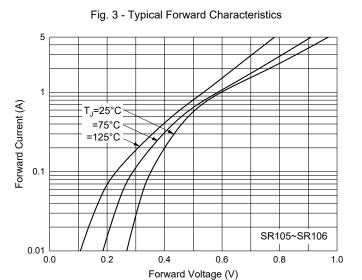
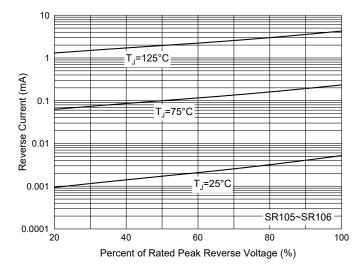
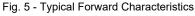


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge









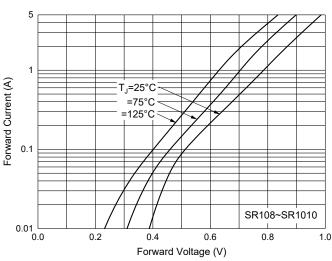
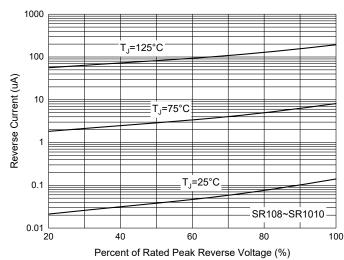


Fig. 6 - Typical Reverse Leakage Characteristics





Curve Characteristics

Fig. 7 - Typical Forward Characteristics

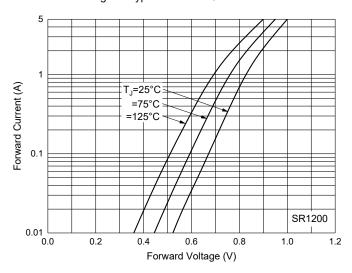


Fig. 9 - Typical Capacitance Characteristics

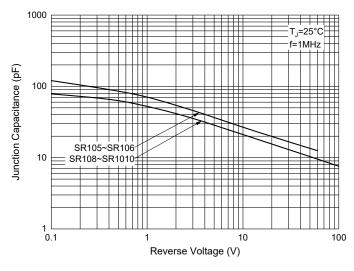


Fig. 8 - Typical Reverse Leakage Characteristics

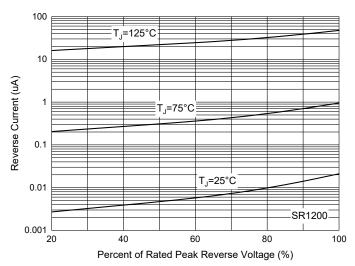
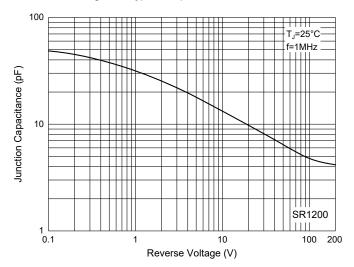


Fig. 10 - Typical Capacitance Characteristics





Ordering Information

Device	Packing
Part Number-TP	Tape&Reel:5Kpcs/Reel
Part Number-AP	Ammo Packing: 5Kpcs/Ammo Box
Part Number-BP	Bulk:1Kpcs/Box,50Kpcs/Carton

Note: Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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