

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					11!4
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

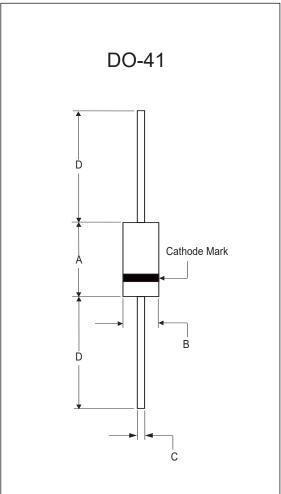
_	
Part Number	Marking Code
SR105	SR105
SR106	SR106
SR108	SR108
SR1010	SR1010
SR1200	SR1200

Internal Structure

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

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

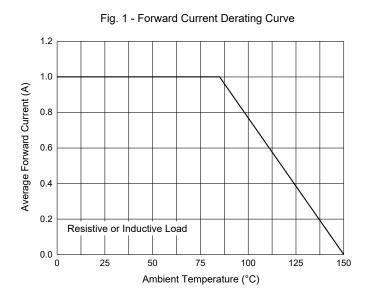
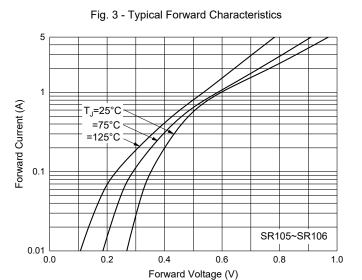
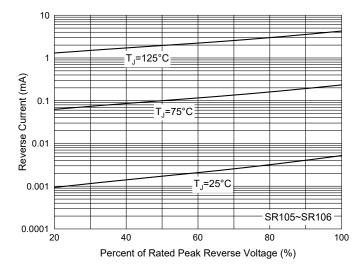
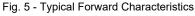


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge









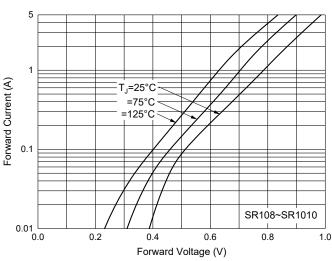
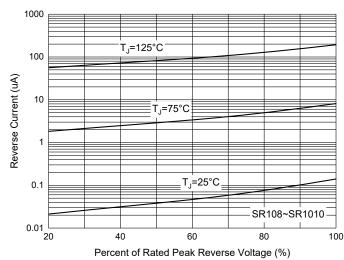


Fig. 6 - Typical Reverse Leakage Characteristics





Curve Characteristics

Fig. 7 - Typical Forward Characteristics

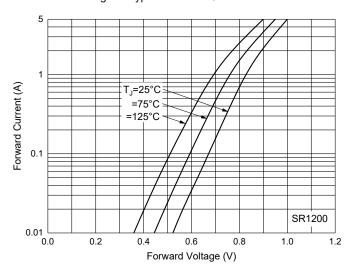


Fig. 9 - Typical Capacitance Characteristics

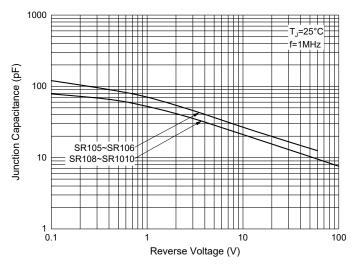


Fig. 8 - Typical Reverse Leakage Characteristics

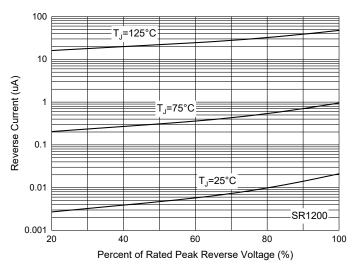
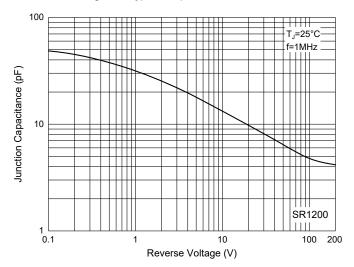


Fig. 10 - Typical Capacitance Characteristics





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

IMPORTANT NOTICE

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. **Micro Commercial Components Corp**. does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold **Micro Commercial Components Corp**, and all the companies whose products are represented on our website, harmless against all damages. **Micro Commercial Components Corp**, products are sold subject to the general terms and conditions of commercial sale, as published at

https://www.mccsemi.com/Home/TermsAndConditions.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources. MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.