

Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- High Current Capability
- 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)

Parameter	Symbol	Value						Unit
		SR 202	SR 203	SR 204	SR 206	SR 208	SR 2010	
Peak Repetitive Reverse Voltage	V_{RRM}							V
Working Peak Reverse Voltage	V_{RWM}	20	30	40	60	80	100	
DC Blocking Voltage	V_R							
RMS Reverse Voltage	V_{RMS}	14	21	28	42	56	70	V
Average Rectified Forward Current	$I_{F(AV)}$	2						A
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	I_{FSM}	50						A
Current Squared Time @ 1ms ≤ t ≤ 8.3ms	I^2t	10.375						A ² s

Marking code

Part Number	Marking Code
SR202	SR202
SR203	SR203
SR204	SR204
SR206	SR206
SR208	SR208
SR2010	SR2010

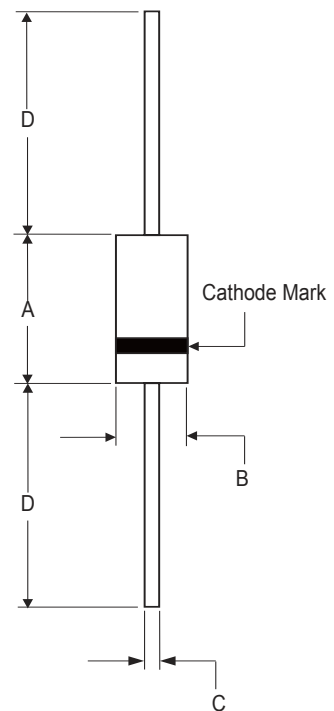
Internal Structure

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

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

& Amp
'GW ch_mF YWZYf
& 0 to 100 Volts

DO-41



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.160	0.205	4.10	5.20	
B	0.080	0.107	2.00	2.70	Φ
C	0.028	0.035	0.71	0.90	Φ
D	1.000	-----	25.40	-----	

Thermal characteristics

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
T_J	Operating Junction Temperature Range	SR202~SR204	-55		125	°C
T_J	Operating Junction Temperature Range	SR206~SR2010	-55		150	°C
T_{stg}	Storage Temperature Range		-55		150	°C
$R_{th(J-L)}$	Thermal Resistance from Junction to Lead			25		°C/W
$R_{th(J-A)}$	Thermal Resistance from Junction to Ambient			75		°C/W

Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward Voltage SR202~SR204 SR206 SR208~SR2010	V_F	$I_F=2A; T_J=25^\circ C$			0.50 0.70 0.85	V
Reverse Current SR202~SR206 SR208~SR2010	I_R	at Rated $V_R; T_J=25^\circ C$ at Rated $V_R; T_J=125^\circ C$ at Rated $V_R; T_J=25^\circ C$ at Rated $V_R; T_J=125^\circ C$			0.1 20 0.01 5	mA
Junction Capacitance SR202~SR204 SR206 SR208~SR2010	C_J	$V_R=4V; f=1MHz; T_J=25^\circ C$		125 90 60		pF

Curve Characteristics

Fig. 1 - Forward Current Derating Curve

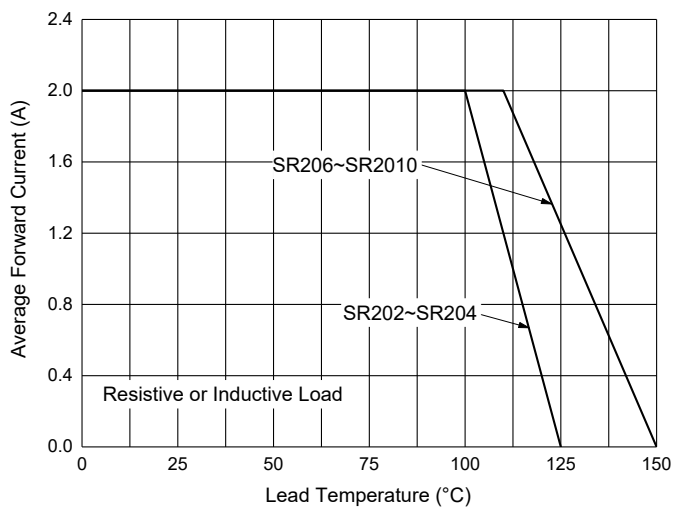


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

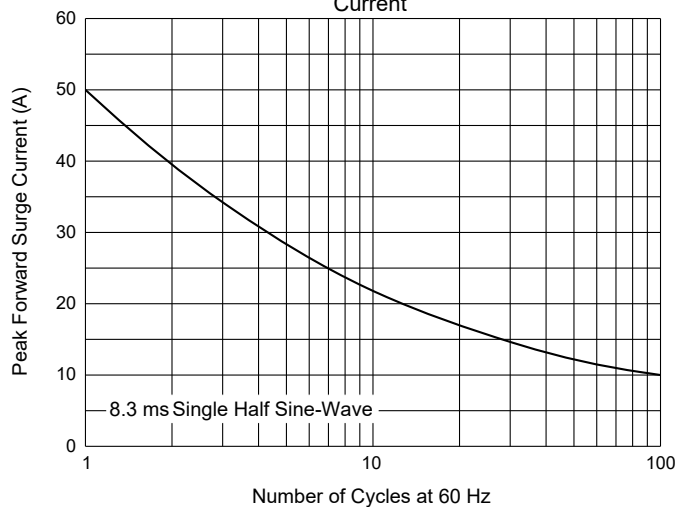


Fig. 3 - Typical Forward Characteristics

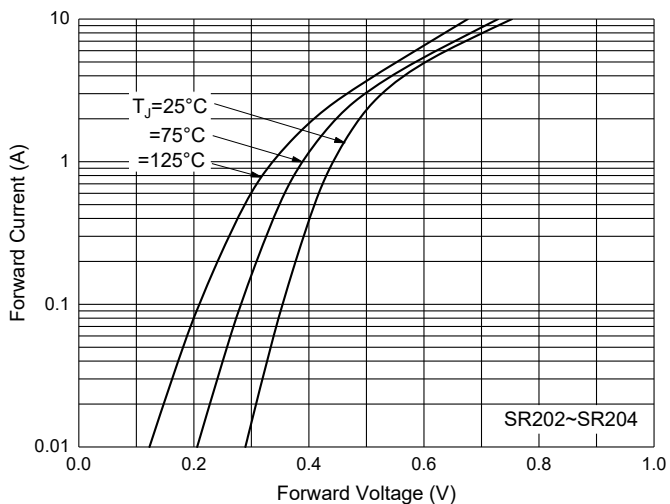


Fig. 4 - Typical Reverse Leakage Characteristics

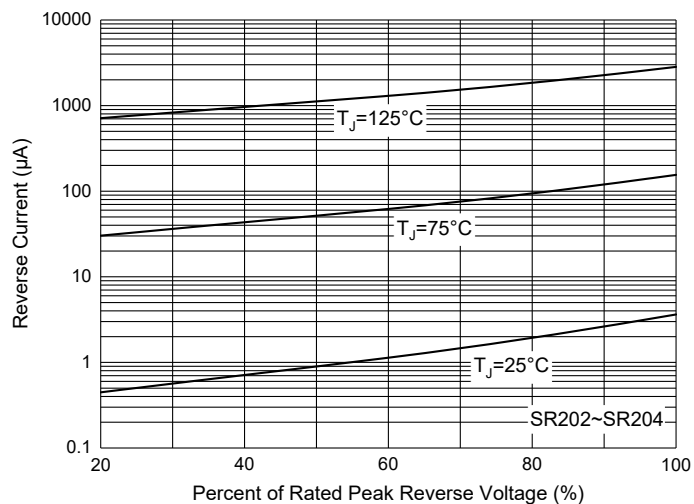


Fig. 5 - Typical Forward Characteristics

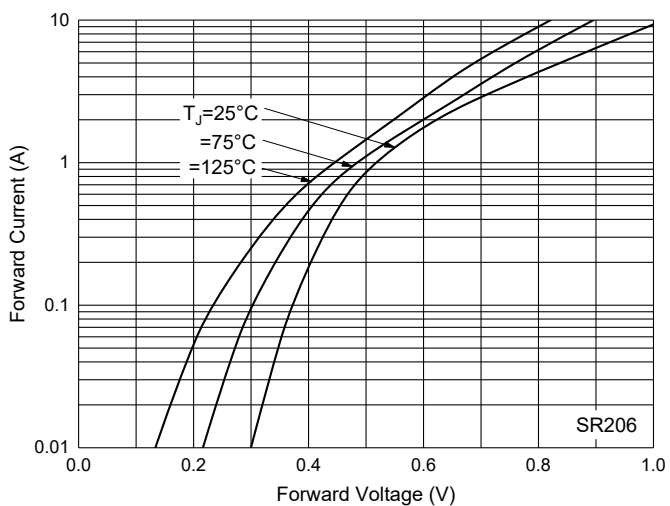
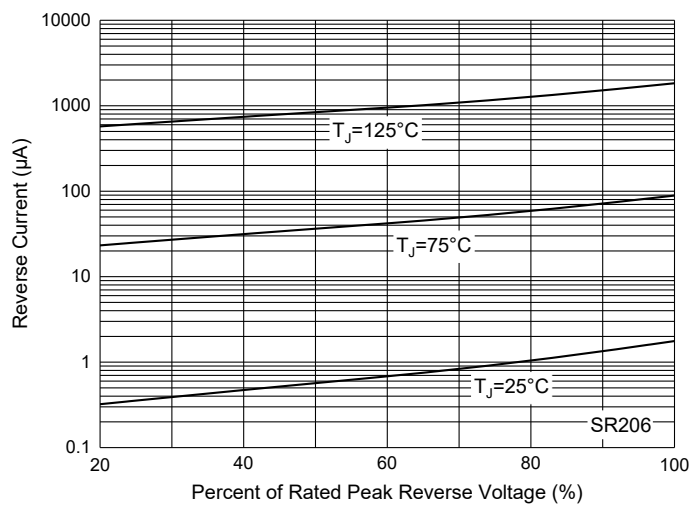


Fig. 6 - Typical Reverse Leakage Characteristics



Curve Characteristics

Fig. 7 - Typical Forward Characteristics

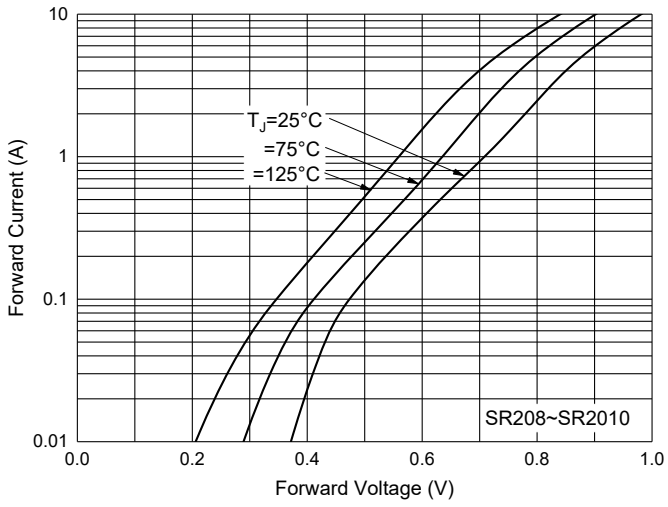


Fig. 8 - Typical Reverse Leakage Characteristics

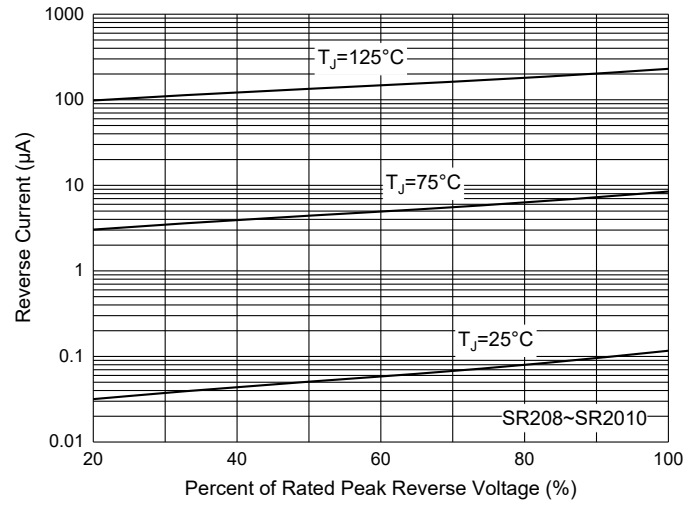
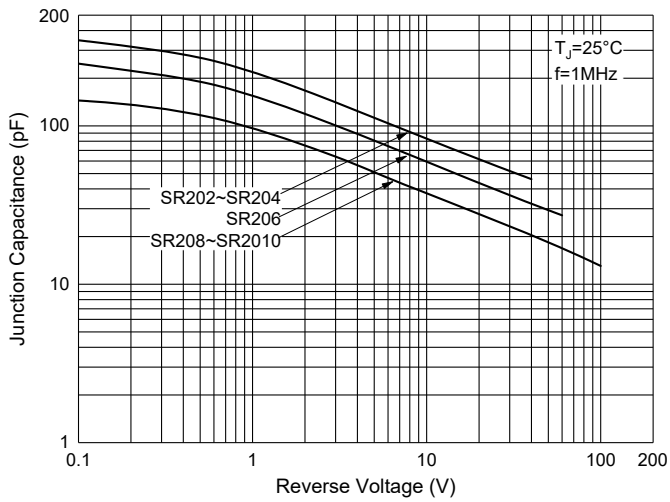


Fig. 9 - Typical Capacitance Characteristics



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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