Micro Commercial Components

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SS22-L THRU SS220-L

2 Amp Schottky Rectifier 20 to 200 Volts

Features

- Guard Ring Protection
- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
- Low Forward Voltage
- High Current Capability
- Halogen free available upon request by adding suffix "-HF"
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings

- Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C

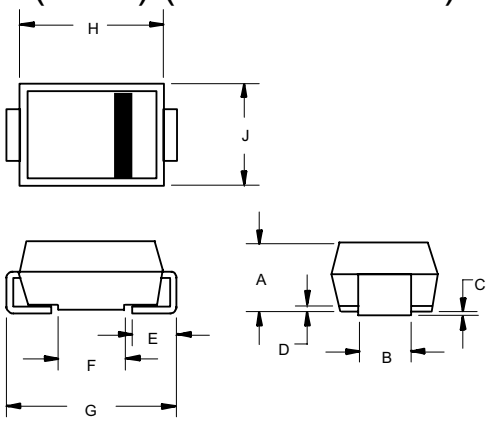
MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SS22-L	SS22	20V	14V	20V
SS23-L	SS23	30V	21V	30V
SS24-L	SS24	40V	28V	40V
SS25-L	SS25	50V	35V	50V
SS26-L	SS26	60V	42V	60V
SS28-L	SS28	80V	56V	80V
SS210-L	SS210	100V	70V	100V
SS2150-L	S2150	150V	105V	150V
SS220-L	SS220	200V	140V	200V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	2.0A	T_L = 100°C
Peak Forward Surge Current	I_{FSM}	50A	8.3ms, half sine
Maximum Instantaneous Forward Voltage SS22-SS24 SS25-SS26 SS28-SS210 SS2150-SS220	V_F	.55V .70V .85V .90V	I_{FM} = 2.0A; T_J = 25°C*
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	0.5mA	T_J = 25°C
Typical Junction Capacitance SS22 SS23-SS210 SS2150-SS220	C_J	230pF 50pF 170pF	Measured at 1.0MHz,V_R=4.0V
Typical Thermal	R_{thJA} R_{thJC} R_{thJL}	75°C/W 25°C/W 15°C/W	

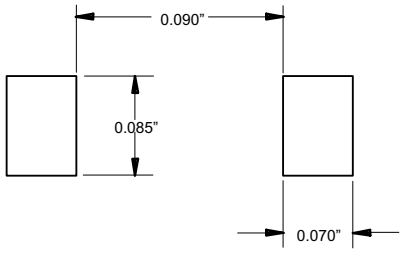
Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.
*Pulse test: Pulse width 300 µsec, Duty cycle 2%

DO-214AC (SMA) (LEAD FRAME)



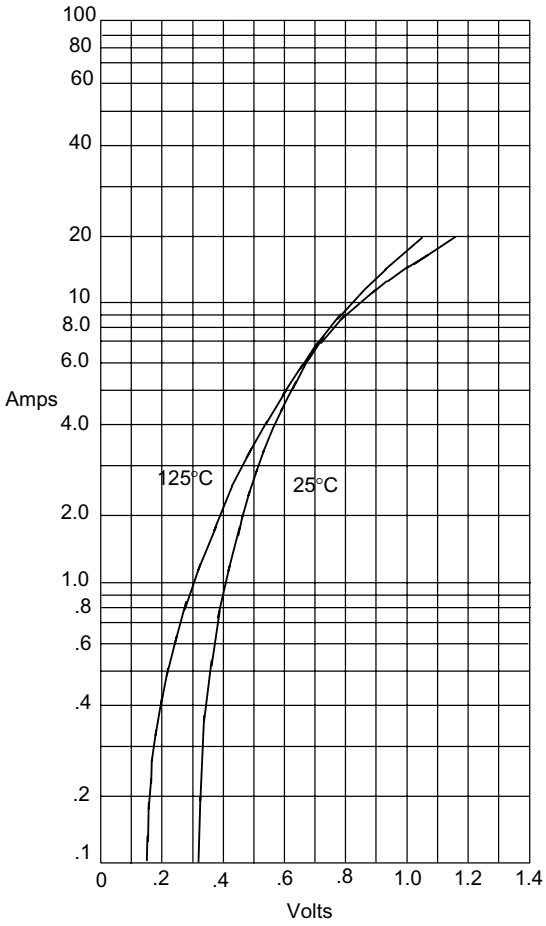
DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	.079	.096	2.00	2.44	
B	.050	.064	1.27	1.63	
C	.002	.008	.05	.20	
D	---	.02	---	.51	
E	.030	.060	.76	1.52	
F	.065	.091	1.65	2.32	
G	.189	.220	4.80	5.59	
H	.157	.181	4.00	4.60	
J	.090	.115	2.25	2.92	

SUGGESTED SOLDER PAD LAYOUT



SS22-L

Figure 1
Typical Forward Characteristics



Instantaneous Forward Current - Amperes*versus*
Instantaneous Forward Voltage - Volts

Figure 2
Typical Reverse Characteristics

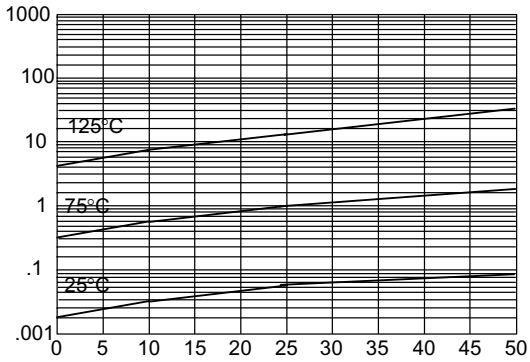
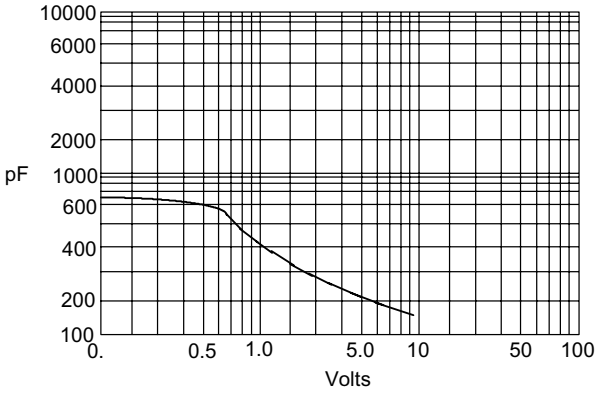
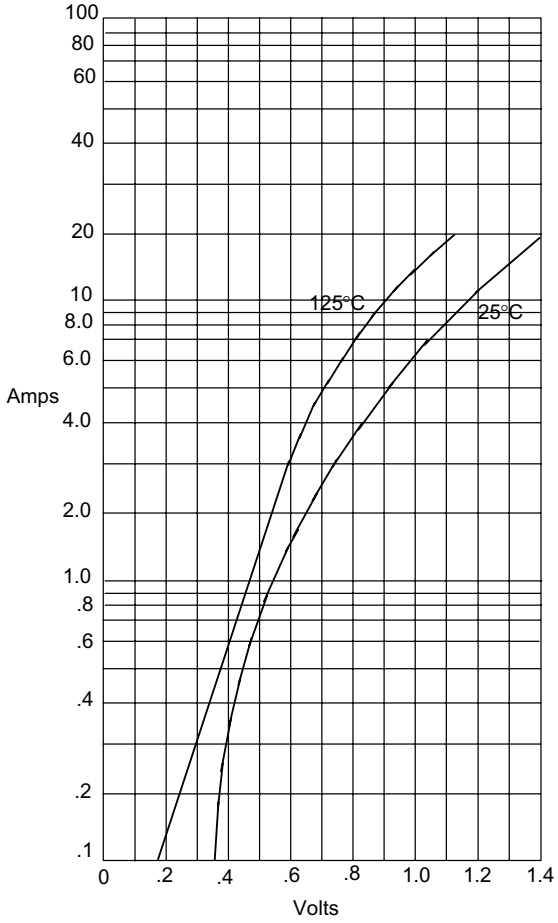


Figure 3
Typical Junction Capacitance



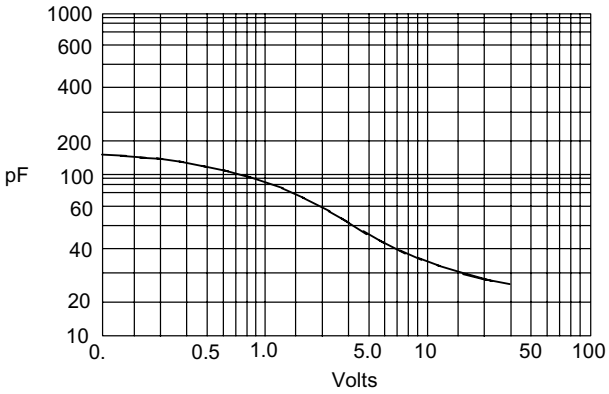
Junction Capacitance - pF*versus*
Reverse Voltage - Volts

Figure 1
Typical Forward Characteristics



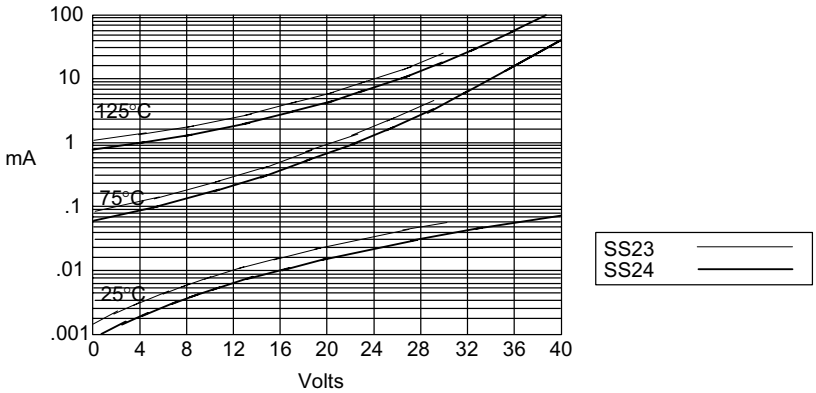
Instantaneous Forward Current - Amperes*versus*
Instantaneous Forward Voltage - Volts

Figure 3
Typical Junction Capacitance



Junction Capacitance - pF*versus*
Reverse Voltage - Volts

Figure 2
Typical Reverse Characteristics



Typical Reverse Current - mA*versus*
Reverse Voltage - Volts

SS2150-L thru SS220-L

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

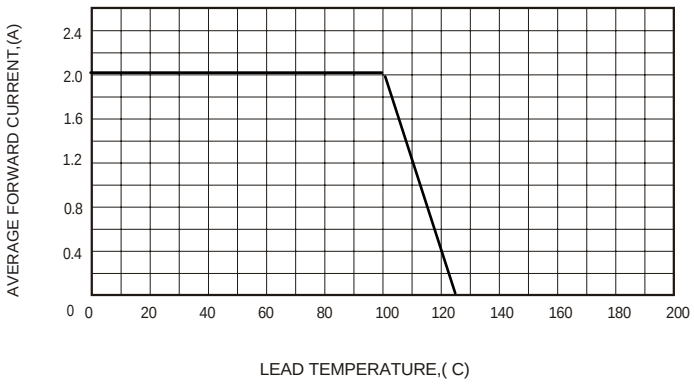


FIG.2-TYPICAL FORWARD CHARACTERISTICS

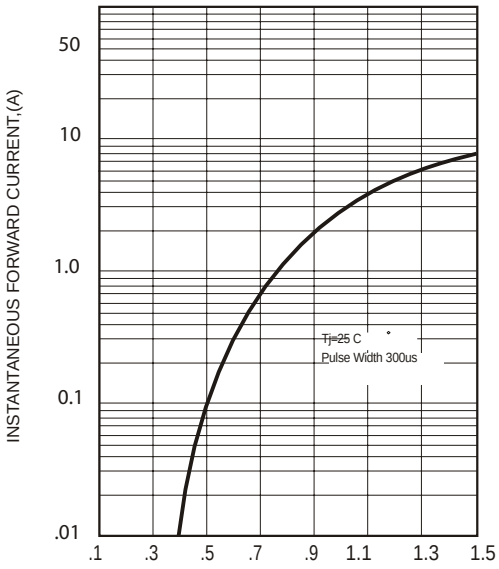


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

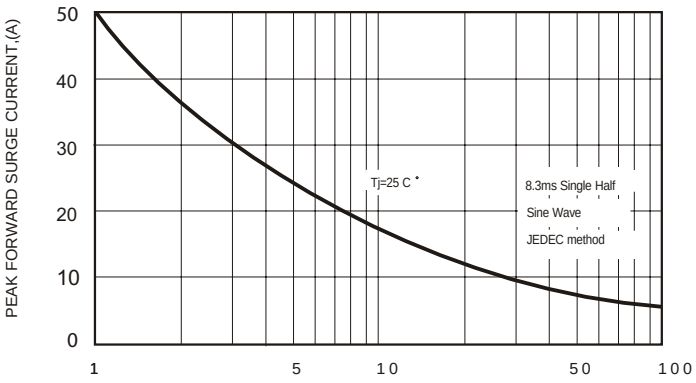


FIG.4-TYPICAL JUNCTION CAPACITANCE

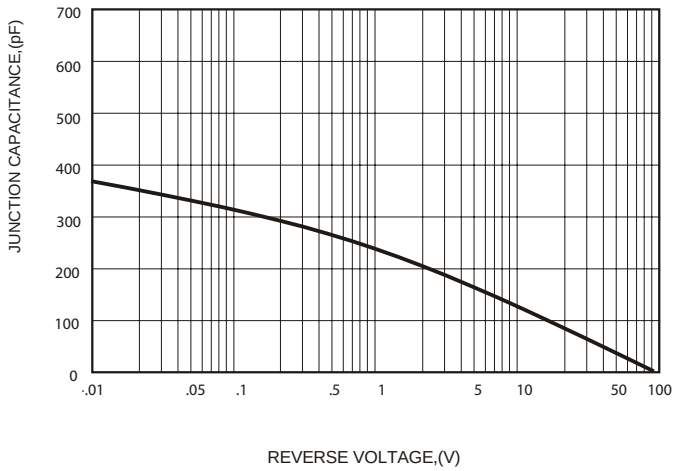
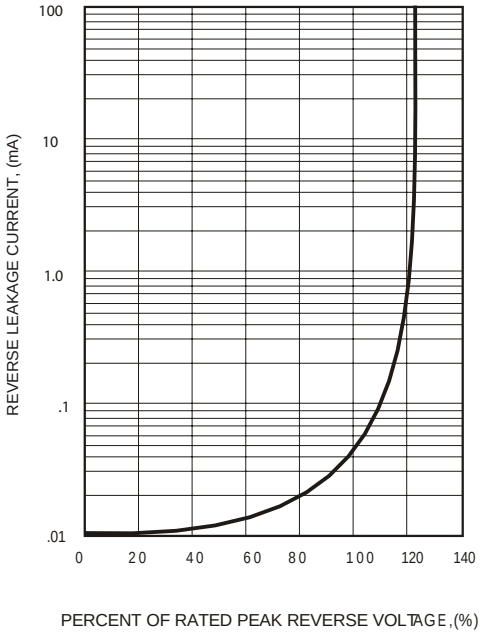


FIG.5 - TYPICAL REVERSE CHARACTERISTICS



Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 5Kpcs/Reel

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

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