

Schottky Barrier Rectifier

2A 20~200V DO-214AC SMA

SS2-A Series

MERITEK

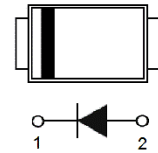
FEATURES

- Low Power Loss, High Efficiency
- Low Profile Package
- High Forward Surge Current Capacity
- Metal to Silicon Junction, Majority Carrier Conduction
- Built-In Strain Relief



MECHANICAL DATA

- Case: Molded Plastic, DO-214AC (SMA)
- Terminals: Solder Plated, Solderable Per MIL-STD-750, Method 2026
- Polarity: Color Band Denotes Cathode End



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

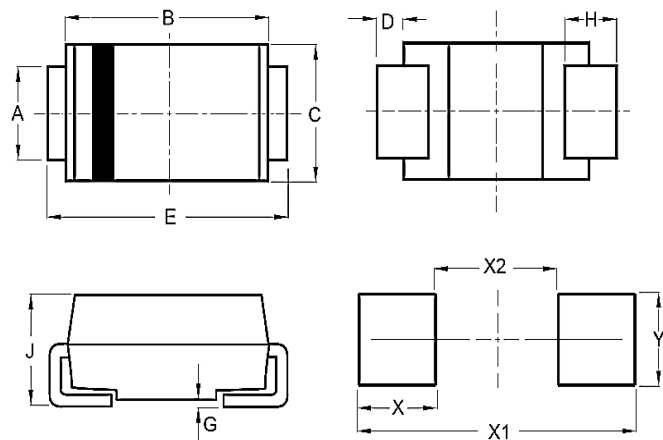
Parameter		Symbol	SS2 2A	SS2 3A	SS2 4A	SS2 5A	SS2 6A	SS2 8A	SS2 10A	SS2 15A	SS2 20A	Unit
Maximum Recurrent Peak Reverse Voltage		V _{RRM}	20	30	40	50	60	80	100	150	200	V
Maximum RMS Voltage		V _{RMS}	14	21	28	35	42	56	71	105	140	V
Maximum DC Blocking Voltage		V _{DC}	20	30	40	50	60	80	100	150	200	V
Maximum Average Forward Rectified Current at T _L		I _(AV)	2.0									A
Forward Surge Current, 8.3ms single half-sine-wave Superimposed on Rated Load (JEDEC method)		I _{FSM}	50.0									A
Maximum Forward Voltage at IF=2.0A		V _F	0.55			0.70		0.85		0.92		V
Maximum Reverse Current	V _R =V _{RRM} , T _A =25°C	I _R	0.5					0.1			mA	
	V _R =V _{RRM} , T _A =100°C		10.0					5.0				
Typical Thermal Resistance		R _{θJA}	75									°C/W
Diode Junction Capacitor	F=1MHz, V _R =4VDC	C _J	220									pF
Operating Junction Temperature Range		T _J	-55 to +125			-55 to +150						°C
Storage Temperature Range		T _{STG}	-65 to +150									°C

Note:

1. Ratings at 25°C ambient temperature unless otherwise specified.
2. Thermal resistance from junction to lead mounted on P.C.B. with 0.2" x 0.2" (5.0 x 5.0 mm) copper pad areas

DIMENSIONS

Item	Min. (mm)	Max. (mm)
A	1.300	1.700
B	3.990	4.500
C	2.450	2.750
D	0.152	0.305
E	4.800	5.280
G	0.000	0.203
H	0.760	1.520
J	1.980	2.420
X	1.600	
X1	5.400	
X2	2.200	
Y	2.800	



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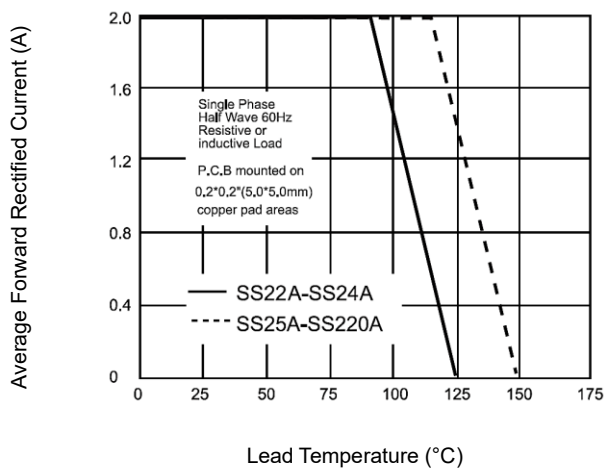
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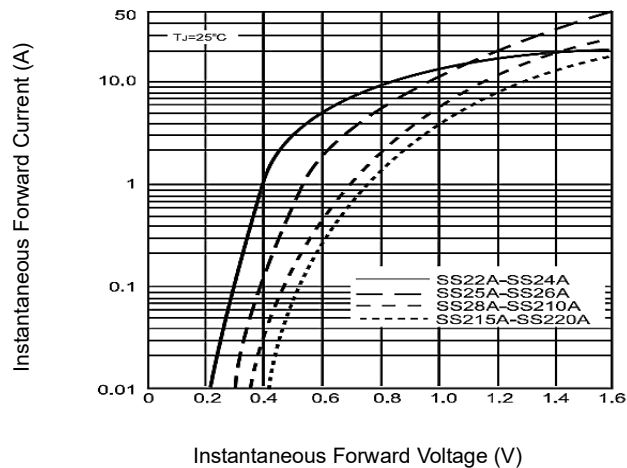
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CHARACTERISTIC CURVES

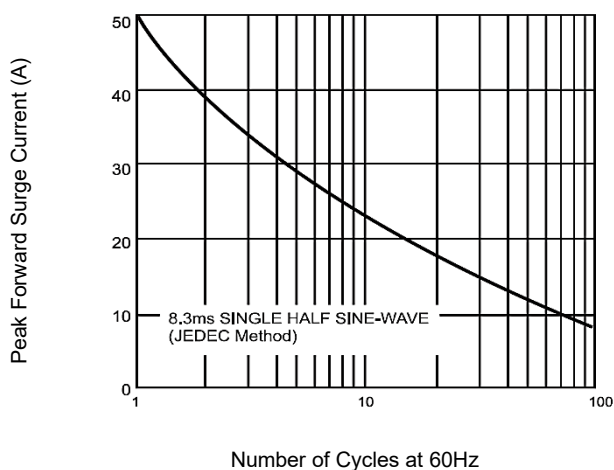
Typical Forward Current Derating Curve



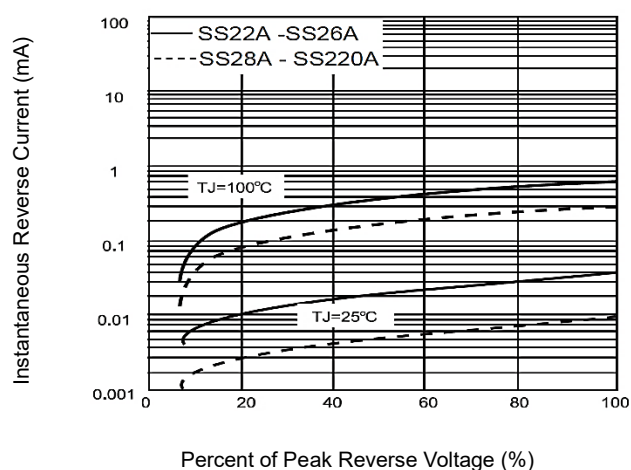
Typical Instantaneous Forward Characteristics



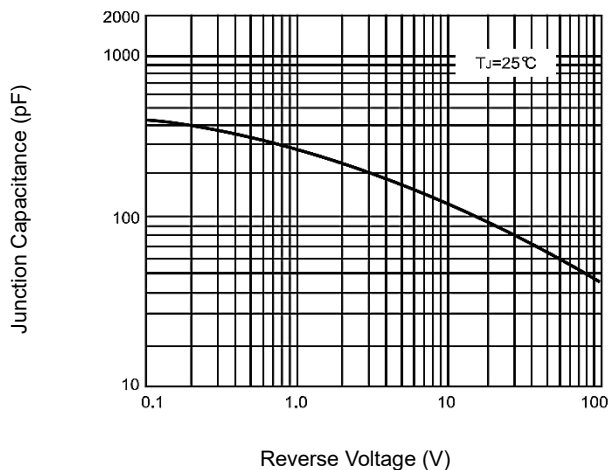
Maximum Non-Repetitive Forward Surge Current



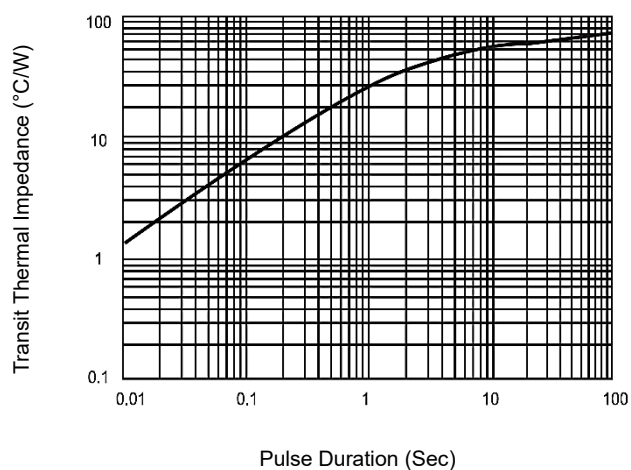
Typical Reverse Characteristics



Typical Junction Capacitance



Typical Transient Thermal Impedance



*Specifications subject to change without notice