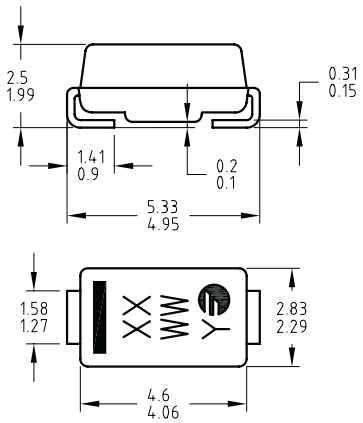
1 Amp. Surface Mount High Temperature Schottky Barrier Rectifiers

RoHS COMPLIANCE

CASE:
SMA/DO-214AC



XX = Marking code
WW = Week code
Y = Year code

Dimensions in mm.

Voltage	**Current**
100 V	1.0 A

- For surface mounted application
- Easy pick and place
- Metal to silicon rectifier, majority carrier conduction
- Low power loss, high efficiency
- High current capability. low VF
- High surge current capability
- Plastic material used carriers Underwraiters Laboratory Classification 94V-0
- Epitaxial construction
- High temperature soldering: 260 °C / 10 seconds at terminals
- High temperature performance

MECHANICAL DATA

Case: Molded plastic
Terminals: Pure tin plated, lead free
Polarity: Indicated by cathode band
Packaging: 12 mm tape EIA-STD RS-481.
Weight: 0.066 g.

Maximum Ratings and Electrical Characteristics at 25 ºC

		FSSH110
	Marking code	**AO**
V_{RRM}	Maximum Recurrent Peak Reverse Voltage (V)	100
V_{RMS}	Maximum RMS Voltage (V)	70
V_{DC}	Maximum DC Blocking Voltage (V)	100
$I_{F(AV)}$	Forward Current at T_L (See graphic)	1.0 A
I_{FSM}	8.3 ms.Peak Forward Surge Current (Jedec Method)	30 A
T_j	Operating Temperature Range	-65°C to +175°C
T_{stg}	Storage Temperature Range	-65°C to +175°C

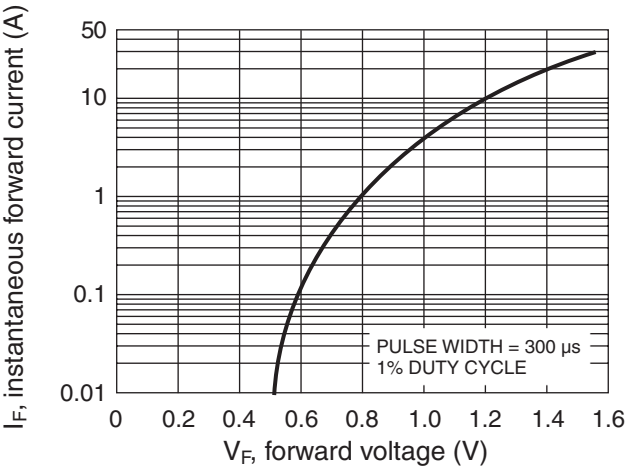
Electrical Characteristics at Tamb = 25 °C

V_F	Maximum Instantaneous Forward Voltage (Note 1) I_F = 1.0 A @ 25 °C	0.80 V
	@ 100 °C	0.70 V
I_R	Maximum DC Reverse Current Ta = 25 °C at	0.1 mA
	Rated DC Blocking Voltage Ta =125°C	2.0 mA
$R_{th\ (j-l)}$	Typical Thermal Resistance (Note 2)	28 °C/W
$R_{th\ (j-a)}$		88 °C/W

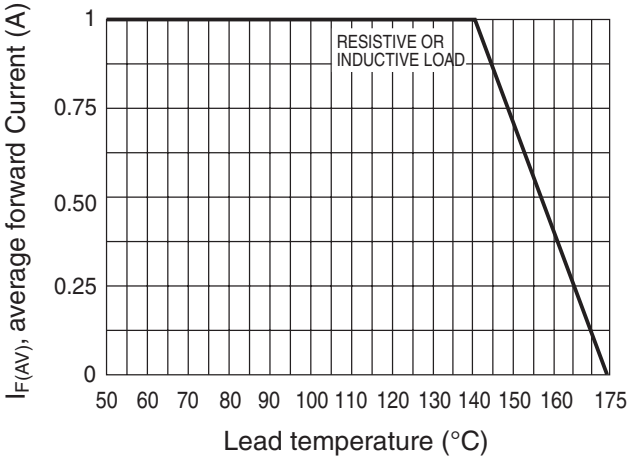
NOTES: 1. Pulse Test With PW = 300 µsec, 1% Duty Cycle
2. Measured on P.C. Board with 5.0mm x 5.0mm Copper Pad Areas

Rating And Characteristic Curves

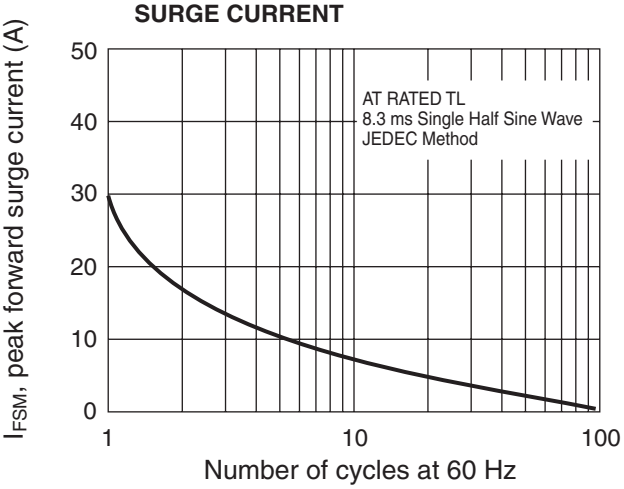
TYPICAL FORWARD CHARACTERISTIC



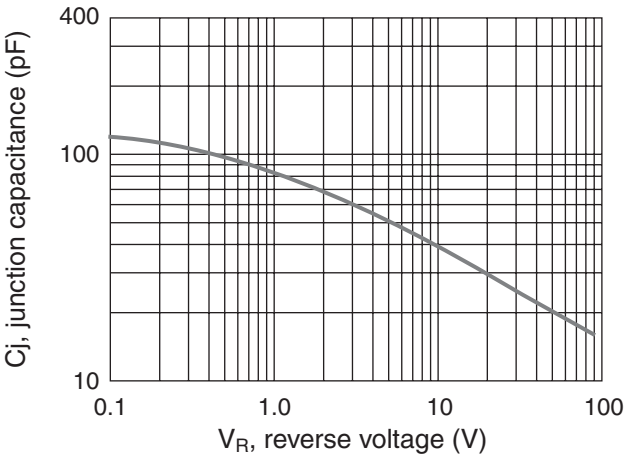
MAXIMUM FORWARD CURRENT DERATING CURVE



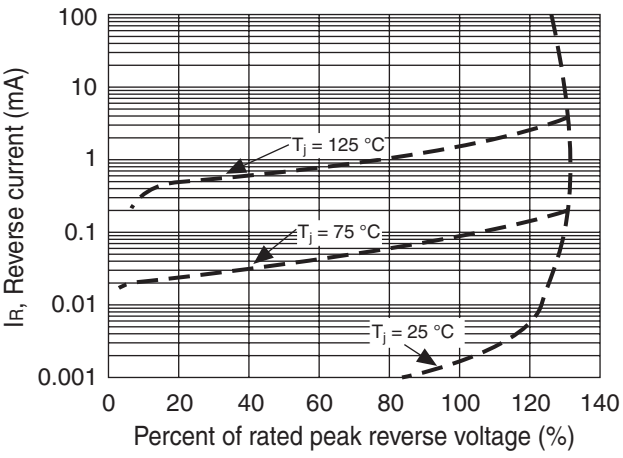
MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



TYPICAL JUNCTION CAPACITANCE



TYPICAL REVERSE CHARACTERISTIC



TYPICAL TRANSIENT THERMAL CHARACTERISTIC