





1.0 Amp. Surface Mount High Temperature Schottky Barrier Rectifiers

<p>DO-214AC / SMA</p> 	<p>Voltage 100 V</p>	<p>Current 1.0 A</p>	
	<p>FEATURES</p> <ul style="list-style-type: none"> • Low profile package • Ideal for automated placement • Guardring for overvoltage protection • Low power losses, high efficiency • Low forward voltage drop • High forward surge current capability • Solder dip 260°C, 10s • Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC • Meets MSL level 1, per J-STD-020, LF maximum peak of 260° C • Low leakage current 		   RoHS COMPLIANT
	<p>MECHANICAL DATA</p> <ul style="list-style-type: none"> • Case: DO-214AC (SMA). Epoxy meets UL 94V-0 flammability rating. • Polarity: Color band denotes cathode end. • Terminals: Matte tin plated leads, solderable per MIL-STD-750 Method 2026, J-STD-002 and JESD22-B102. Consumer grade, meets JESD 201 class 1A whisker test. HE3 suffix for high reliability grade (AEC Q101 qualified), meets JESD 201 class 2 whisker test. 		
	<p>TYPICAL APPLICATIONS</p> <p>Used in low voltage high frequency inverters, freewheeling, dc-to-dc converters, and polarity protection applications.</p>		

Maximum Ratings and Electrical Characteristics at 25°C

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

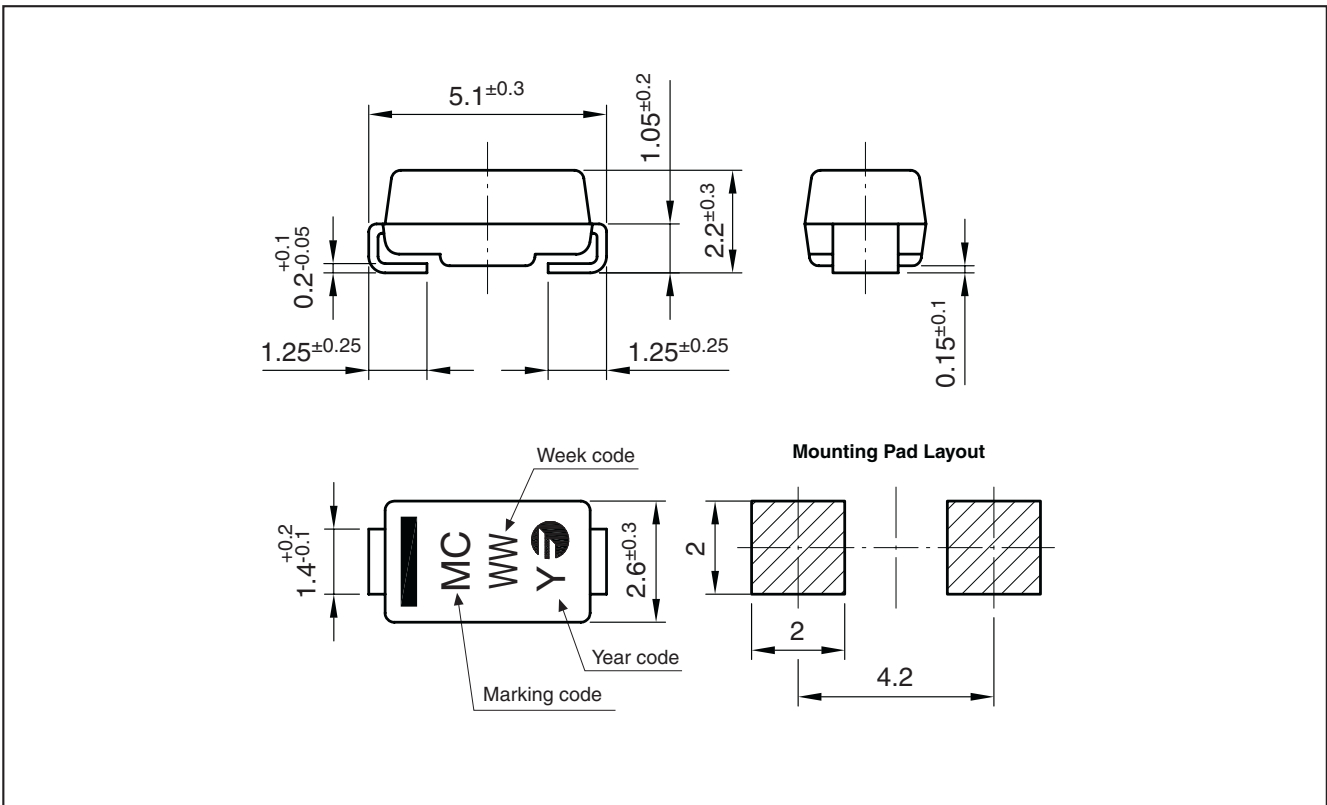
NOTES: 1. Pulse Test With PW = 300 µsec, 1% Duty Cycle
2. Measured on P.C. Board with 5.0mm x 5.0mm Copper Pad Areas

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Ordering information

PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
FSSH110 TRTB	TRTB	13" diameter tape and reel	7,500	0.060
FSSH110 TRTS	TRTS	7" diameter tape and reel	1,500	0.060
FSSH110 HE3 TRTB	TRTB	13" diameter tape and reel	7,500	0.060
FSSH110 HE3 TRTS	TRTS	7" diameter tape and reel	1,500	0.060

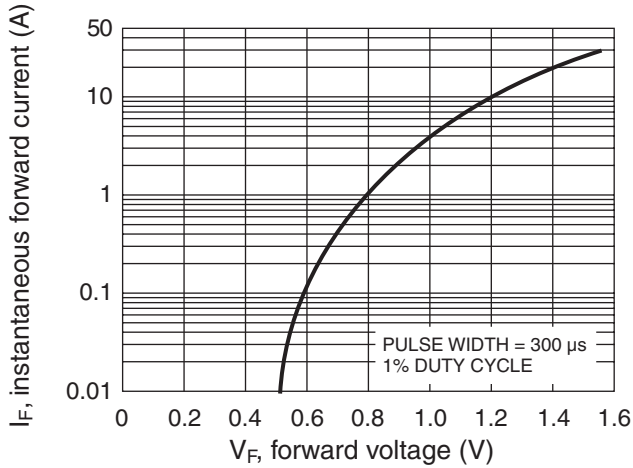
Package Outline Dimensions: (mm) DO-214AC / SMA



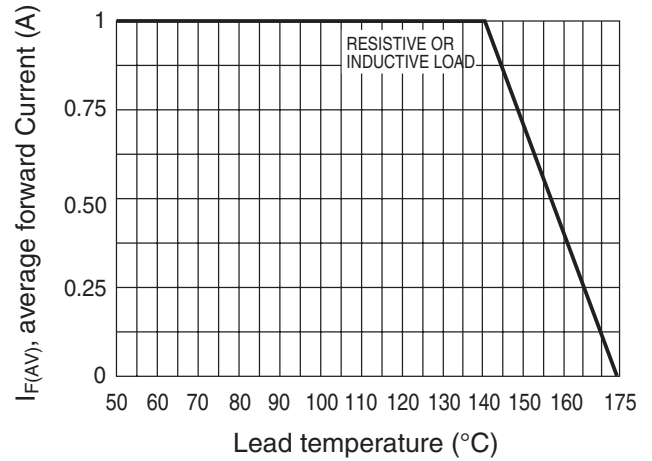
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Ratings and Characteristics (Ta 25 °C unless otherwise noted)

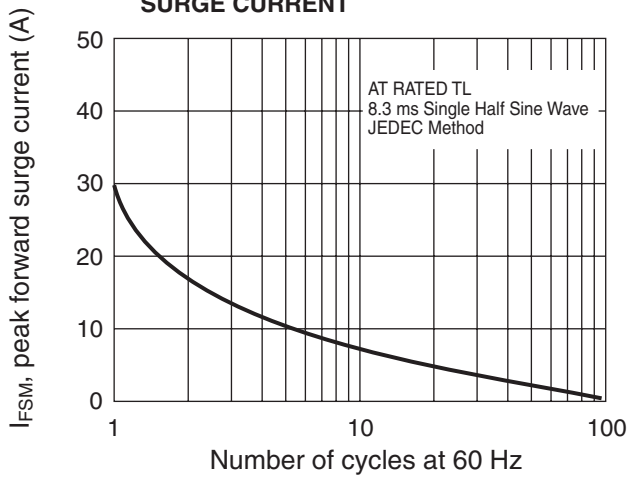
TYPICAL FORWARD CHARACTERISTIC



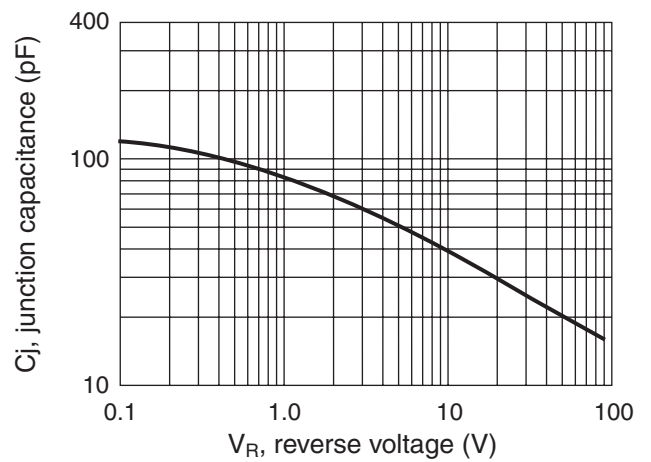
MAXIMUM FORWARD CURRENT DERATING CURVE



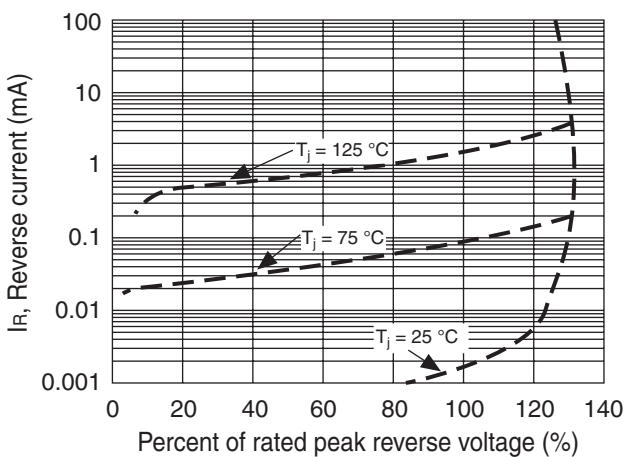
MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



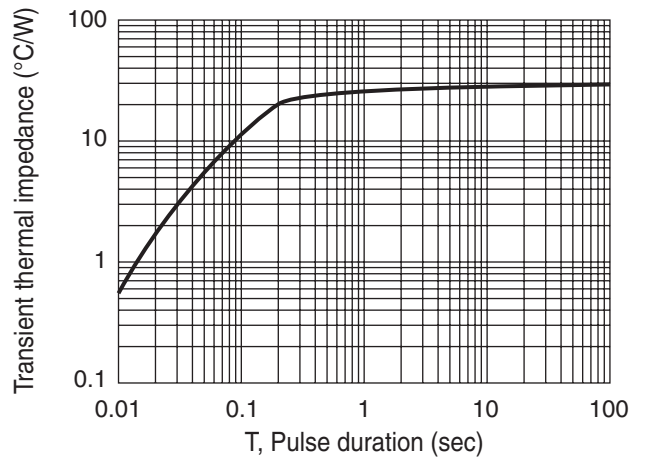
TYPICAL JUNCTION CAPACITANCE



TYPICAL REVERSE CHARACTERISTIC



TYPICAL TRANSIENT THERMAL CHARACTERISTIC



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