


1.0 Amp. Surface Mount Glass Passivated Ultrafast Recovery Rectifier

<p>DO-214AC (SMA)</p> 	<p>Voltage 600 V</p> <p>Current 1.0 A</p> <p>HYPERECTIFIER [®]</p>
	<p>FEATURES</p> <ul style="list-style-type: none"> Low profile package Ideal for automated placement Ultrafast recovery time for high efficiency Low power losses Low forward voltage drop High forward surge current capability Solder dip 260°C, 10s Component in accordance to RoHS 2011/65/EU and WEEE 2002/96/EC Meets MSL level 1, per J-STD-020, LF maximum peak of 260° C
	<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.
	<p>TYPICAL APPLICATIONS</p> <p>Used in high frequency rectification and freewheeling application in switching mode converters and inverters for consumer, computer, automotive and telecommunication.</p>

Maximun Ratings and Electrical Characteristics at 25°C

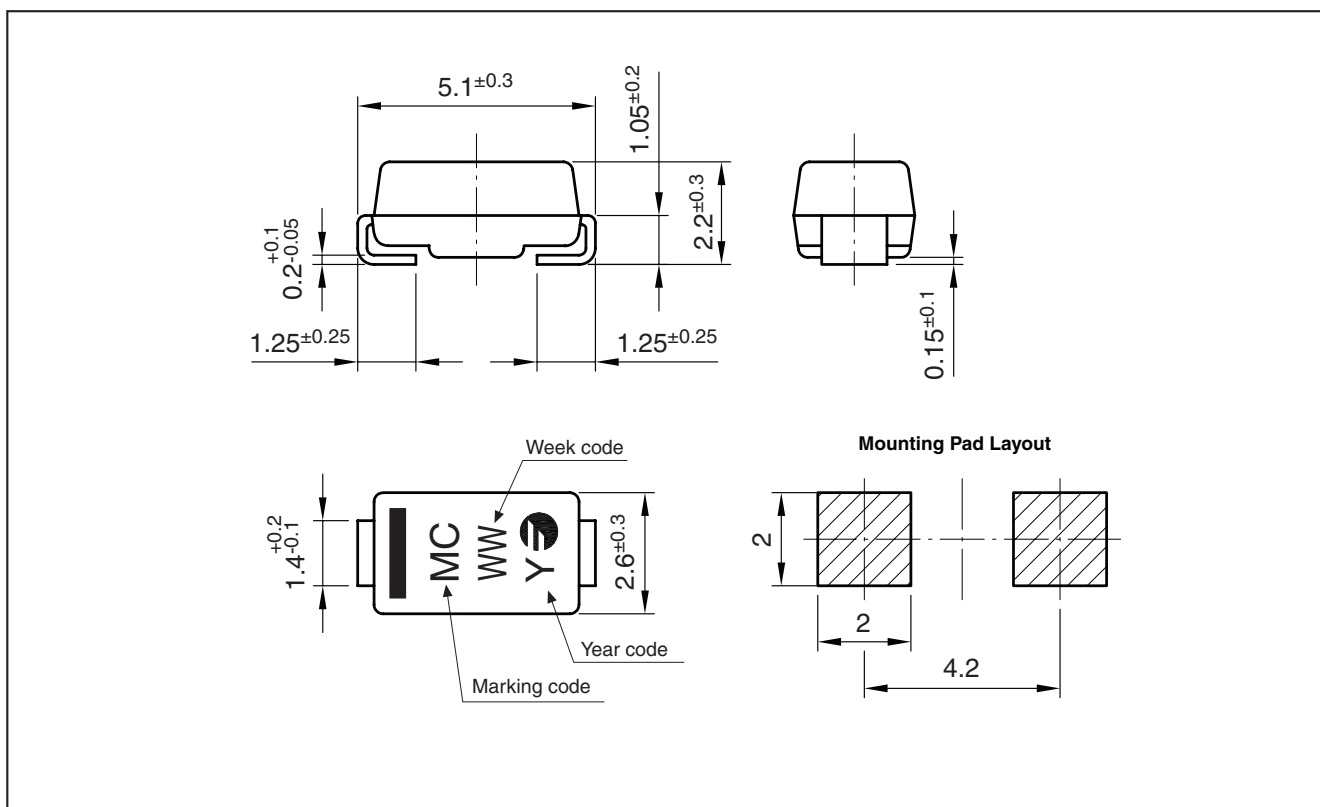
		ES1J
Marking Code		HA
V_{RRM}	Maximum Recurrent Peak Reverse Voltage (V)	600
V_{RMS}	Maximum RMS Voltage (V)	420
V_{DC}	Maximum DC Blocking Voltage (V)	600
$I_{F(AV)}$	Forward current at $T_C = 110^\circ C$	1.0 A
I_{FSM}	8.3 ms. peak forward surge current (Jedec Method)	30 A
V_F	Maximum Instantaneous Forward Voltage at 1.0A	1.7 V
I_R	Maximum DC Reverse Current $T_j = 25^\circ C$	5 μA
	at Rated DC Blocking Voltage $T_j = 100^\circ C$	100 μA
T_{rr}	Maximum Reverse Recovery Time (0.5/1/0.25A)	35 ns
C_j	Typical Junction Capacitance (1MHz; -4V)	8 pF
$R_{th(j-c)}$	Maximum Thermal Resistance	27 $^\circ C/W$
$R_{th(j-a)}$	(5x5 mm ² x 130 μ Copper Area)	75 $^\circ C/W$
$T_j - T_{stg}$	Operating Junction and Storage Temperature Range	-55 to + 150 $^\circ C$

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Ordering information

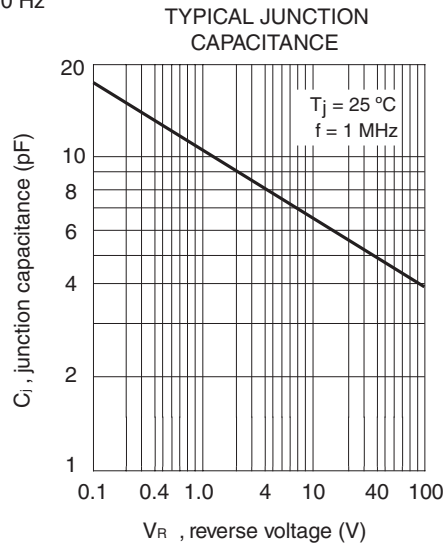
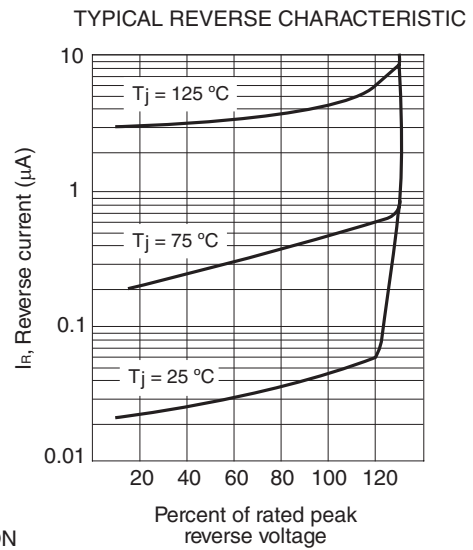
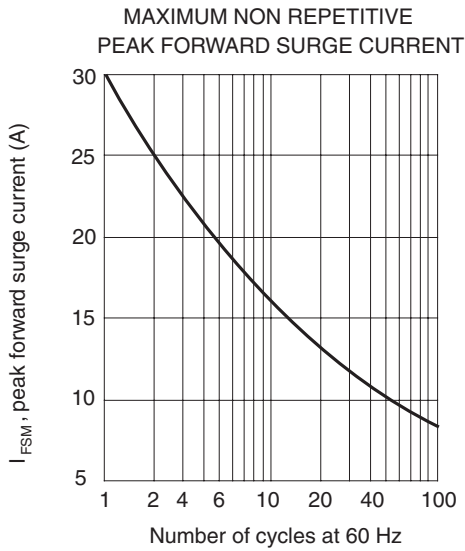
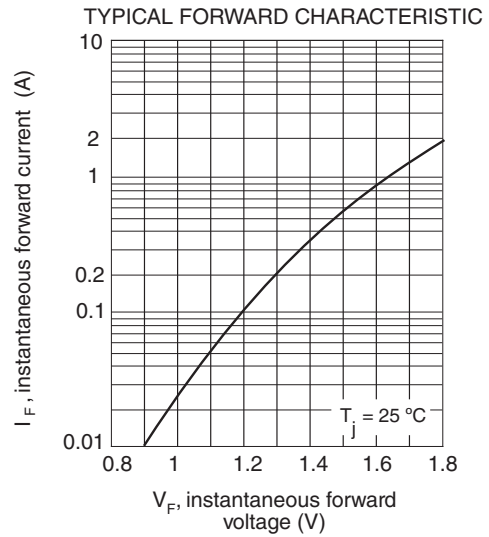
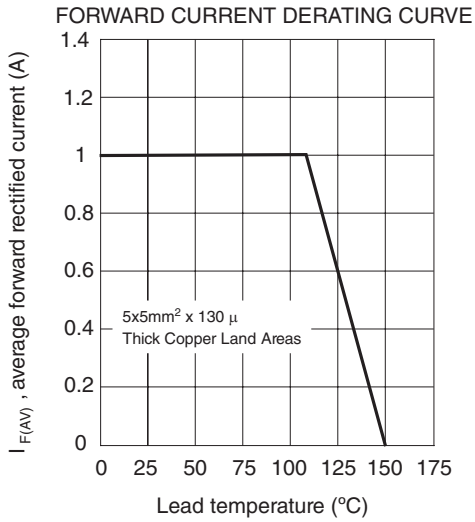
PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
ES1J TRTB	TRTB	13" diameter tape and reel	7,500	0.060

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



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



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Disclaimer

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