

1 Amp. Surface Mounted Glass Passivated Ultrafast Recovery Rectifier

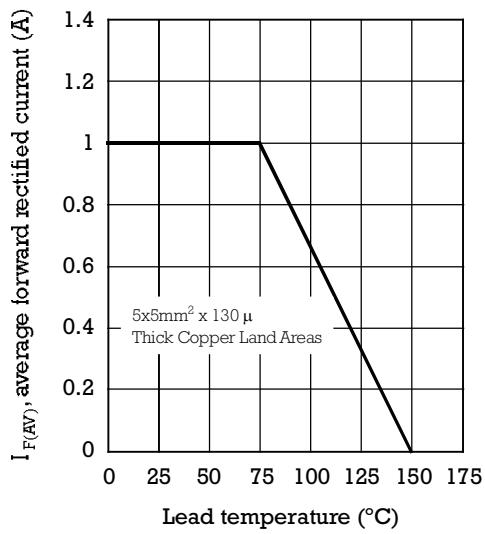
Dimensions in mm. CASE: SMA/DO-214AC	Voltage 50 to 600 V 	Current 1.0 A
<ul style="list-style-type: none"> • Glass passivated junction • High current capability • The plastic material carries U/L 94 V-0 • Low profile package • Easy pick and place • High temperature soldering 260 °C 10 sec <p>MECHANICAL DATA</p> <p>Terminals: Solder plated, solderable per IEC 68-2-20. Standard Packaging: 4 mm. tape (EIA-RS-481). Weight: 0.064 g.</p>		

Maximum Ratings and Electrical Characteristics at 25 °C

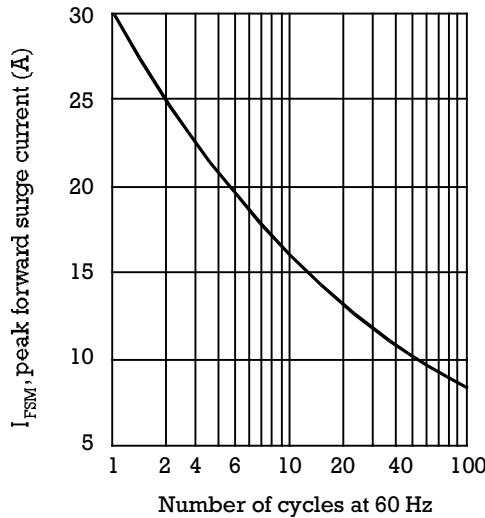
		FES1A	FES1B	FES1D	FES1F	FES1G	FES1J				
	Marking Code	U1	U2	U3	U4	U5	U6				
V_{RMM}	Maximum Recurrent Peak Reverse Voltage	50	100	200	300	400	600				
V_{RMS}	Maximum RMS Voltage	35	70	140	210	280	420				
V_{DC}	Maximum DC Blocking Voltage	50	100	200	300	400	600				
$I_{F(AV)}$	Forward current at $T_L = 75^\circ\text{C}$	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	0.95 V		1.25 V							
I_R	Maximum DC Reverse Current $T_a = 25^\circ\text{C}$ at Rated DC Blocking Voltage $T_a = 100^\circ\text{C}$	5 μA 100 μA									
T_{rr}	Maximum Reverse Recovery Time (0.5/1/0.25A)	50 ns									
C_j	Typical Junction Capacitance (1MHz; -4V)	8 pF									
$R_{th(j-j)}$ $R_{th(j-a)}$	Typical Thermal Resistance (5x5 mm ² x 130 μ Copper Area)	27 °C/W 75 °C/W									
T_j - T_{stg}	Operating Junction and Storage Temperature Range	-55 to + 150 °C									

Rating And Characteristic Curves

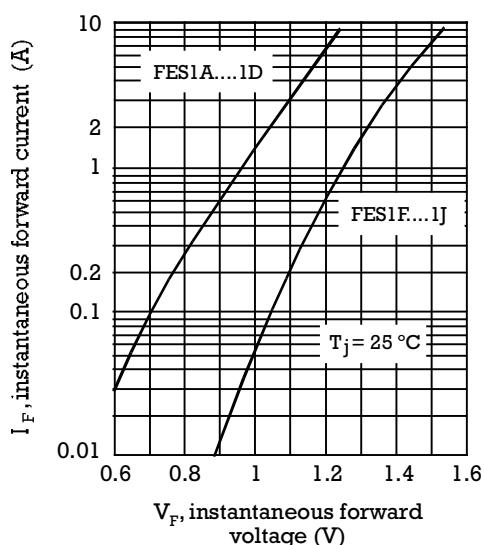
FORWARD CURRENT DERATING CURVE



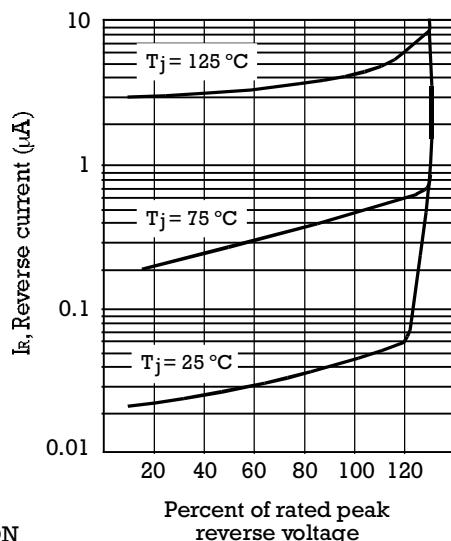
MAXIMUM NON REPETITIVE
PEAK FORWARD SURGE CURRENT



TYPICAL FORWARD CHARACTERISTIC



TYPICAL REVERSE CHARACTERISTIC



TYPICAL JUNCTION CAPACITANCE

