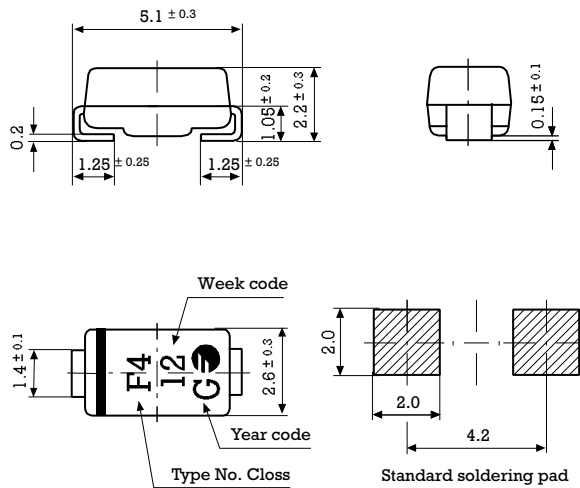


1 Amp. Surface Mounted Glass Passivated Ultrafast Recovery Rectifier

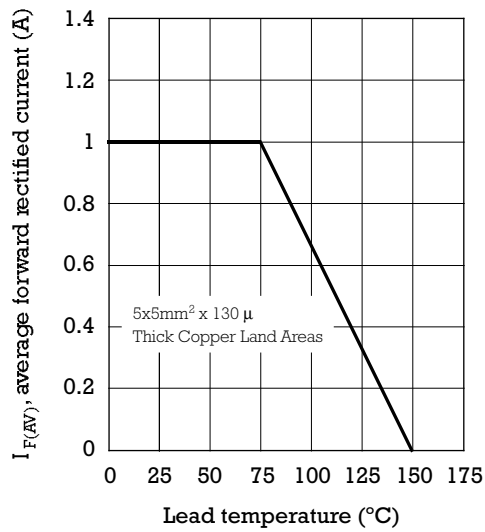
Dimensions in mm.	CASE: SMA/DO-214AC	Voltage 50 to 600 V	Current 1.0 A
			
		• Glass passivated junction • High current capability • The plastic material carries U/L 94 V-0 • Low profile package • Easy pick and place • High temperature soldering 260 °C 10 sec	
		MECHANICAL DATA Terminals: Solder plated, solderable per IEC 68-2-20. Standard Packaging: 4 mm. tape (EIA-RS-481). Weight: 0.064 g.	

Maximum Ratings and Electrical Characteristics at 25 °C

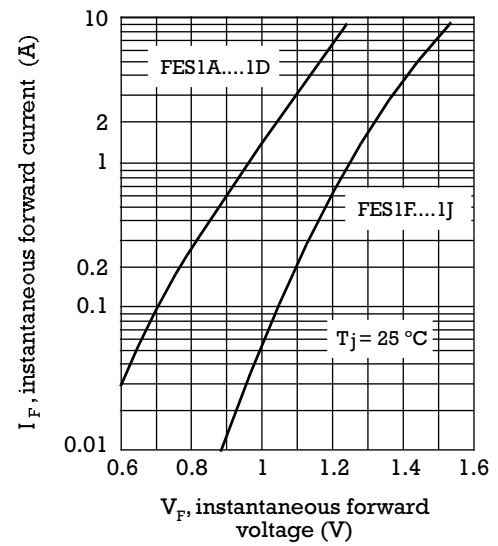
		FES1A	FES1B	FES1D	FES1F	FES1G	FES1J
Marking Code		U1	U2	U3	U4	U5	U6
V _{RRM}	Maximum Recurrent Peak Reverse Voltage	50	100	200	300	400	600
V _{RMS}	Maximum RMS Voltage	35	70	140	210	280	420
V _{DC}	Maximum DC Blocking Voltage	50	100	200	300	400	600
I _{F(AV)}	Forward current at T _L = 75 °C	1.0 A					
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 Ta = 25 °C at Rated DC Blocking Voltage Ta = 100 °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-l)} 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

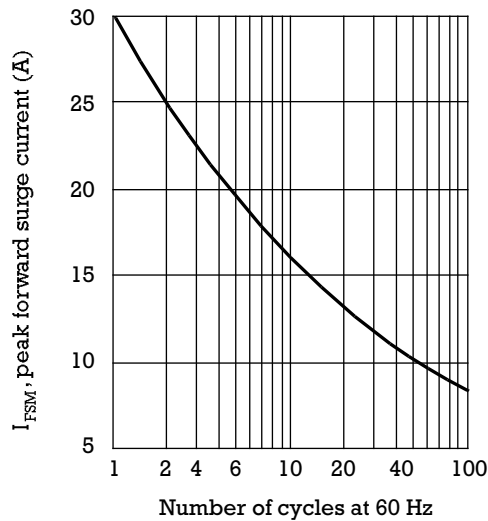
FORWARD CURRENT DERATING CURVE



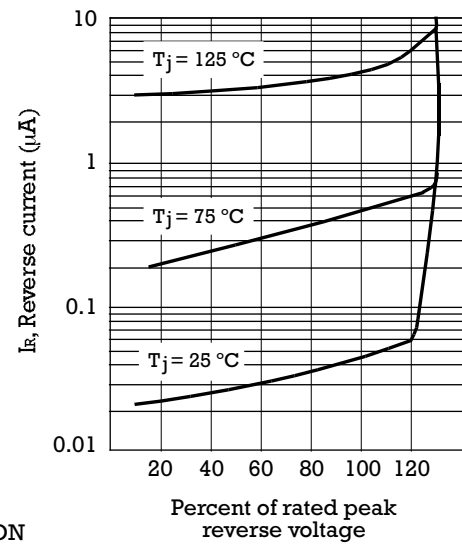
TYPICAL FORWARD CHARACTERISTIC



MAXIMUM NON REPETITIVE
PEAK FORWARD SURGE CURRENT



TYPICAL REVERSE CHARACTERISTIC



TYPICAL JUNCTION
CAPACITANCE

