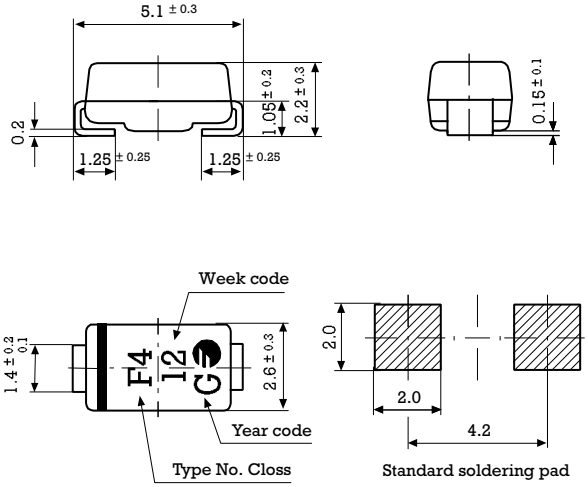
1 Amp. Surface Mounted Glass Passivated Ultrafast Recovery Rectifier

Dimensions in mm.

CASE:
SMA/DO-214AC



Voltage
50 to 600 V

Current
1.0 A

HYPERECTIFIER®

- **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

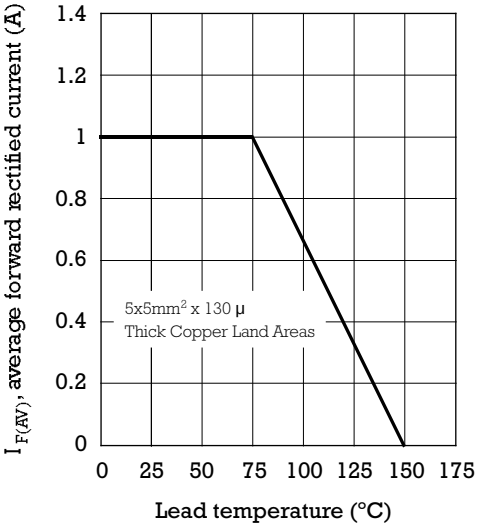
Terminals: Solder plated, solderable per IEC 68-2-20.
Standard Packaging: 4 mm. tape (EIA-RS-481).
Weight: 0.064 g.

Maximum Ratings and Electrical Characteristics at 25 °C

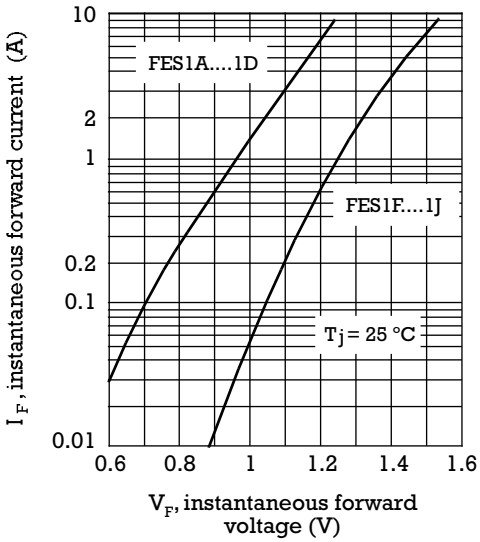
		FES1A	FES1B	FES1D	FES1F	FES1G	FES1J
Marking Code		U1	U2	U3	U4	U5	U6
V_{RRM}	Maximum Recurrent Peak Reverse Voltage	50	100	200	300	400	600
V_{RMS}	Maximum RMS Voltage	35	70	140	210	280	420
V_{DC}	Maximum DC Blocking Voltage	50	100	200	300	400	600
$I_{F(AV)}$	Forward current at T_L = 75 °C	1.0 A					
I_{FSM}	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

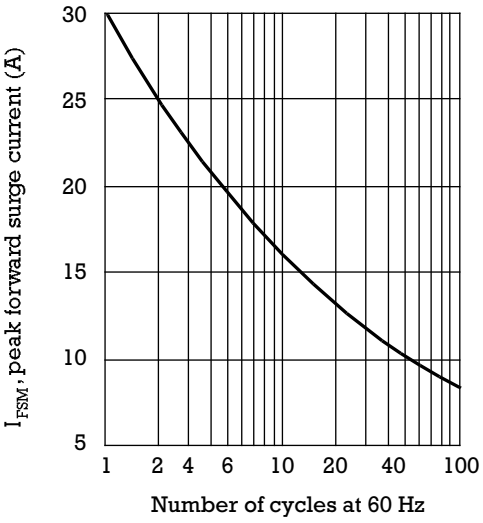
FORWARD CURRENT DERATING CURVE



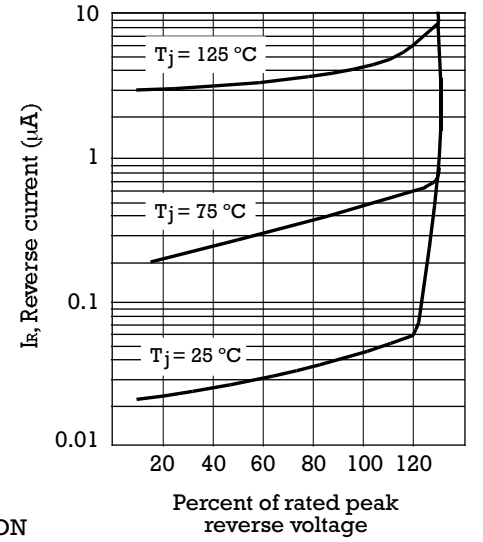
TYPICAL FORWARD CHARACTERISTIC



MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT



TYPICAL REVERSE CHARACTERISTIC



TYPICAL JUNCTION CAPACITANCE

