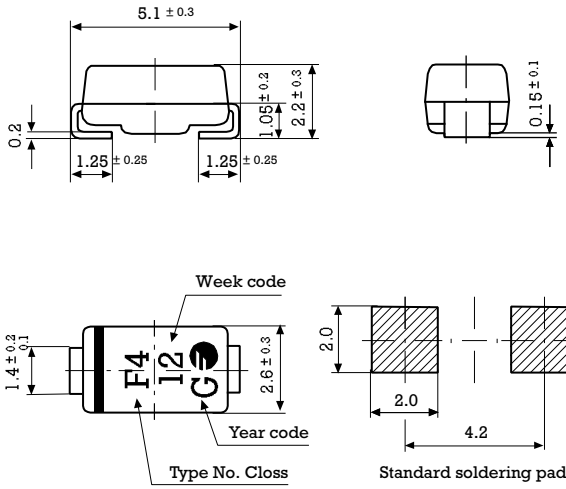
1 Amp. Surface Mounted Very Fast Soft Recovery Glass Passivated Avalanche Diode

Dimensions in mm.

CASE:
SMA/DO-214AC



Voltage
200 to 600 V.

Current
1.0 A at 55 °C.

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, according to IEC publication No. 134

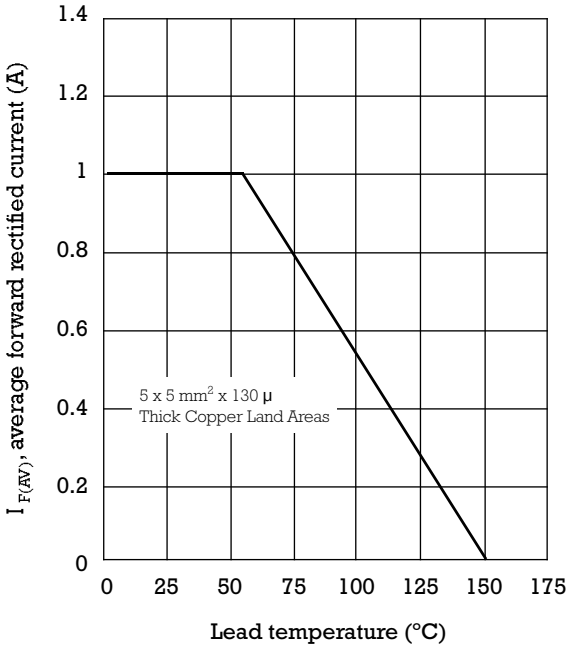
		FES26A	FES26B	FES26C
Marking Code		E1	E2	E3
V_{RRM}	Peak Recurrent reverse voltage (V)	200	400	600
V_{RMS}	Maximum RMS voltage	140	280	420
V_{DC}	Maximum DC blocking voltage	200	400	600
$I_{F(AV)}$	Forward current at Tamb = 55 °C	1 A		
I_{FRM}	Recurrent peak forward current	10 A		
I_{FSM}	10 ms. peak forward surge current (Jedec Method)	30 A		
t_{rr}	Max. reverse recovery time from I_F = 0.5 A ; I_R = 1 A ; I_{RR} = 0.25 A	30 ns		
V_{BR}	Avalanche breakdown voltage at 100 µ A (V)	>300	>500	>700
T_j	Operating temperature range	– 55 to + 150 °C		
T_{stg}	Storage temperature range	– 55 to + 150 °C		
E_{RSM}	Maximum non repetitive peak reverse avalanche energy. I_R = 1A ; T_J = 25 °C	10 mJ		

Electrical Characteristics at Tamb = 25 °C

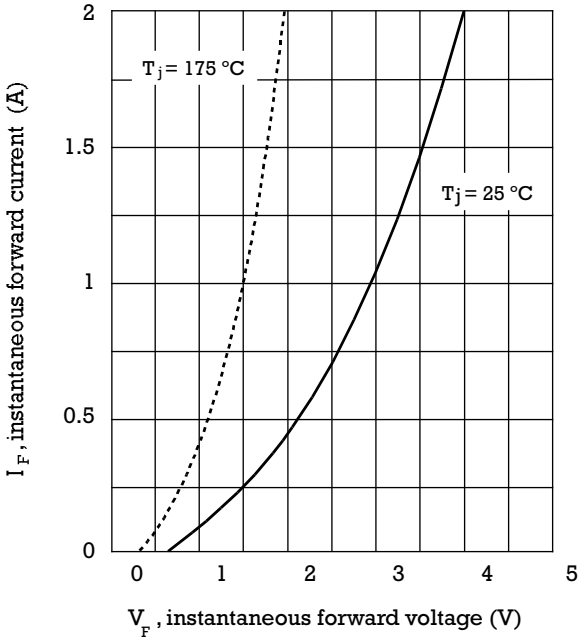
V_F	Max. forward voltage drop at I_F = 1 A	at 25 °C at 150 °C	2.5 V 1.3 V
I_R	Max. reverse current at V_{RRM}	at 25 °C at 100 °C	5 µA 100 µA
R_{thj-l} R_{thj-a}	Typical thermal resistance (5 x 5 mm^2 x 130 µm Copper Area)		27 °C/W 75 °C/W

Rating And Characteristic Curves

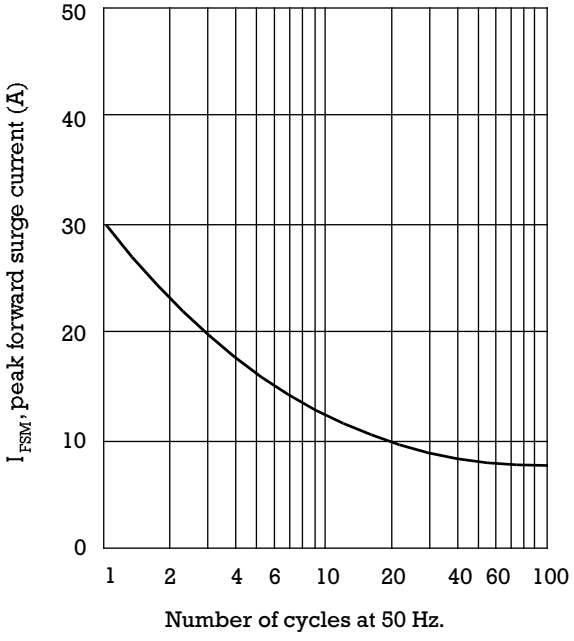
FORWARD CURRENT DERATING CURVE



MAXIMUM FORWARD CHARACTERISTIC



MAXIMUM NON REPETITIVE
PEAK FORWARD SURGE CURRENT



TYPICAL JUNCTION CAPACITANCE