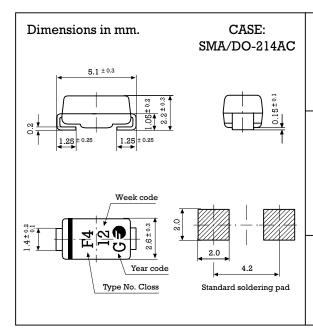


1 Amp. Surface Mounted Glass Passivated Ultrafast Recovery Rectifier



Voltage Current
50 to 600 V 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.

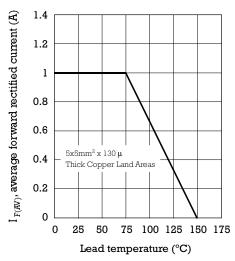
Maximum Ratings and Electrical Characteristics at 25 °C

		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
$V_{\scriptscriptstyle DC}$	Maximum DC Blocking Voltage	50	100	200	300	400	600
$I_{F(AV)}$	Forward current at $T_{\scriptscriptstyle L}$ = 75 °C	1.0 A					
I _{FSM}	8.3 ms. peak forward surge current (Jedec Method)	30 A					
$V_{\scriptscriptstyle F}$	Maximum Instantaneous Forward Voltage at 1.0A	0.95 V 1.25 V					
I_R	$ \begin{array}{ll} \mbox{Maximum DC Reverse Current} & \mbox{Ta} = 25 \ \mbox{°C} \\ \mbox{at Rated DC Blocking Voltage} & \mbox{Ta} = 100 \ \mbox{°C} \\ \end{array} $	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)}	Typical Thermal Resistance (5x5 mm² x 130 µ Copper Area)	27 °C/W 75 °C/W					
$T_{\rm j} _{\rm -} T_{\rm stg}$	Operating Junction and Storage Temperature Range	-55 to + 150 °C					

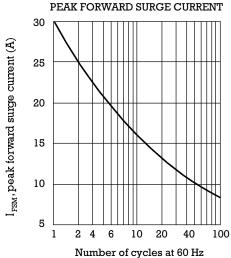


Rating And Characteristic Curves

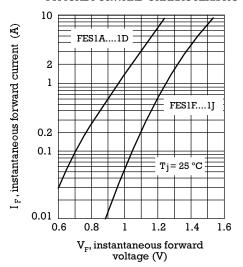
FORWARD CURRENT DERATING CURVE



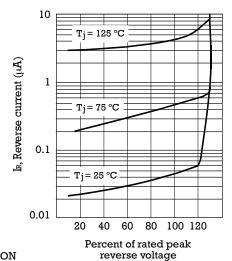
MAXIMUM NON REPETITIVE



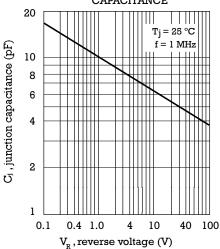
TYPICAL FORWARD CHARACTERISTIC



TYPICAL REVERSE CHARACTERISTIC



TYPICAL JUNCTION CAPACITANCE



Jun - 03