

1 Amp. Surface Mounted Glass Passivated Ultrafast Recovery Rectifier

<p>Dimensions in mm.</p> <p>CASE: SMA/DO-214AC</p> <p>Week code XX Year code YY Type No. Class</p> <p>Standard soldering pad</p>	<p style="text-align: center;">Voltage 200 to 1000 V</p> <p style="text-align: center;">Current 1.0 A at 55 °C</p> <div style="text-align: center; margin: 10px 0;"> </div> <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 Terminals: Solder plated, solderable per IEC 68-2-20. Standard Packaging: 4 mm. tape (EIA-RS-481). Weight: 0.064 g.</p>
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Maximum Ratings, according to IEC publication No. 134

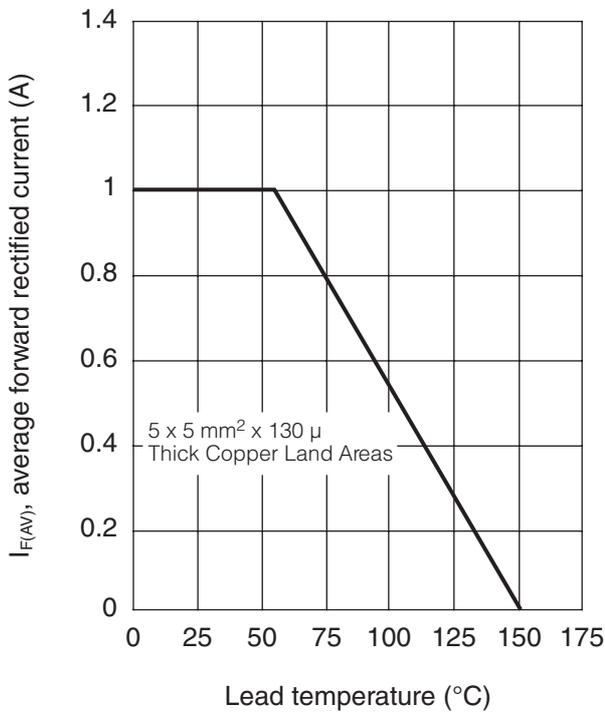
		FES26A	FES26B	FES26C	FES26D	FES26E	FES26ET	
Marking Code		E1	E2	E3	E4	E5	E6	
V_{RRM}	Peak Recurrent Reverse Voltage (V)	200	400	600	800	1000	1000	
V_{RMS}	Maximum RMS Voltage (V)	140	280	420	560	700	700	
V_{DC}	Maximum DC Blocking Voltage (V)	200	400	600	800	1000	1000	
$I_{F(AV)}$	Forward current at $T_{amb} = 55\text{ °C}$	1 A						
I_{FRM}	Recurrent peak forward current	10 A						
I_{FSM}	8.3 ms. peak forward surge current (Jedec Method)	30 A						
t_{rr}	Max. reverse recovery time from $I_F = 0.5\text{ A}$; $I_R = 1\text{ A}$; $I_{RR} = 0.25\text{ A}$	30 ns			75 ns		50 ns	
V_{BR}	Avalanche breakdown voltage at 100 μA (V)	>300	>500	>700	>900	>1050		
T_j	Operating temperature range	-65 to + 175 °C						
T_{stg}	Storage temperature range	-65 to + 175 °C						
E_{RSM}	Maximum non repetitive peak reverse avalanche energy $I_R = 1\text{ A}$; $T_j = 25\text{ °C}$	10 mJ					5 mJ	

Electrical Characteristics at $T_{amb} = 25\text{ °C}$

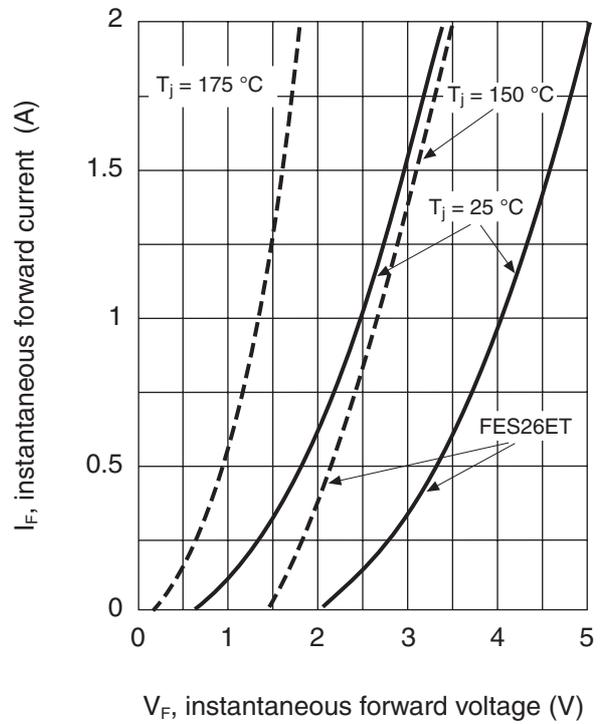
V_F	Max. forward voltage drop at $I_F = 1\text{ A}$	at 25 °C 2.5 V	4.0 V
		at 150 °C 1.3 V	2.85 V
I_R	Max. reverse current at V_{RRM}	at 25 °C 5 μA	
		at 100 °C 100 μA	
$R_{th(j-l)}$	Typical thermal resistance	27 °C/W	
$R_{th(j-a)}$	(5x5 mm ² x 130 μm Copper Area)	75 °C/W	

Rating And Characteristic Curves

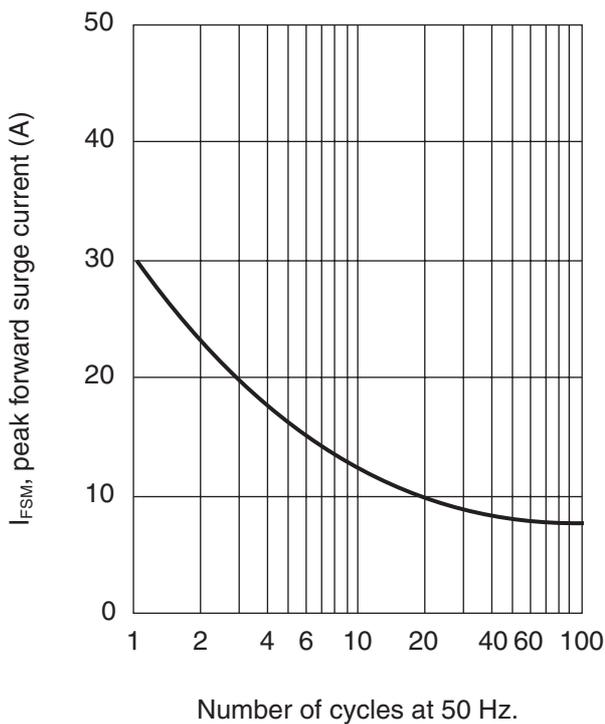
FORWARD CURRENT DERATING CURVE



MAXIMUM FORWARD CHARACTERISTIC



MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT



TYPICAL JUNCTION CAPACITANCE

