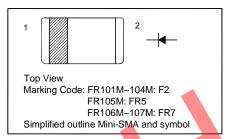
FR101M THRU FR107M

Surface Mount Fast Recovery Rectifiers Reverse Voltage - 50 to 1000 V Forward Current - 1 A

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter	Symbols	FR101M	FR102M	FR103M	FR104M	FR105M	FR106M	FR107M	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at T _a = 65 °C	I _{F(AV)}	1					Α		
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	30					Α		
Maximum Instantaneous Forward Voltage at 1 A	V_{F}				1.3				٧
Maximum DC Reverse Current $T_a = 25 ^{\circ}\text{C}$ at Rated DC Blocking Voltage $T_a = 125 ^{\circ}\text{C}$	I _R	5 50					μΑ		
Maximum Reverse Recovery Time 1)	t _{rr}	150 250			50	00	ns		
Typical Junction Capacitance 2)	n Capacitance ²⁾ C _j 15				pF				
Operating and Storage Temperature Range	T_j , T_{stg}	T _j , T _{stg} - 55 to + 150				°C			

 $^{^{1)}}$ Measured with $I_{\text{F}}\!=0.5$ A, $I_{\text{R}}\!=1$ A, $I_{\text{rr}}\!=0.25$ A





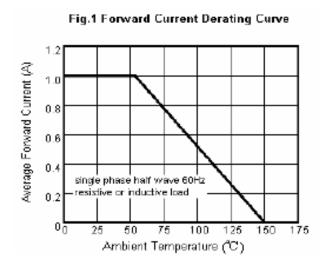


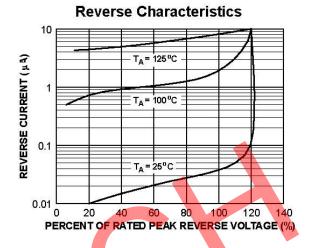


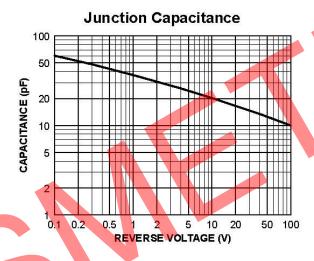




 $^{^{\}rm 2)}\,\rm Measured$ at 1MHz and applied reverse voltage of 4V D.C















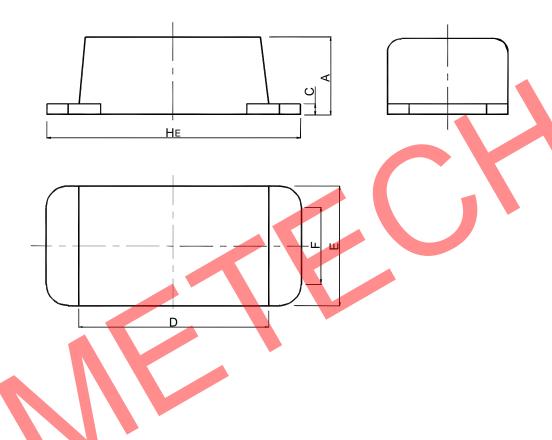




PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

Mini-SMA



UNIT	Α	С	D	E	F	H _E
m.m.	1.08	0.2	2.9	1.9	1.53	3.9
mm	0.88	0.1	2.6	1.7	1.43	3.5

