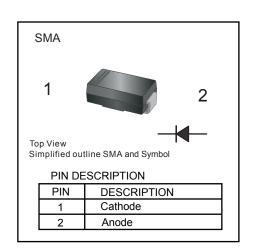
Fast Recovery Rectifier FR101 ~ FR107

■ Features

- The plastic package carries Underwriters Laboratory
 Flammability Classification 94V-0
- For surface mounted applications
- Fast switching for high efficiency
- Low reverse leakage
- Built-in strain relief, ideal for automated placement
- High forward surge current capability
- High temperature soldering guaranteed:

250°C/10 seconds at terminals



■ Absolute Maximum Ratings Ta = 25 °C unless otherwise specified

Parameter	Symbol	FR 101	FR 102	FR 103	FR 104	FR 105	FR 106	FR 107	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	
Surge Peak Reverse Voltage	V_{RSM}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Instantaneous Forward Voltage at I _F =1A	V_{F}	1.3							
Averaged Forward Current at T _L =75°C	I _{FAV}	1							
Peak forward surge current	I _{FSM}	30						Α	
Maximum DC Reverse Current T _A =25°C	_	5							
at rated DC blocking voltage T _A =100℃	I _R	50						μΑ	
Reverse Recovery Time *1	t _{rr}	150			250	50	00	ns	
Typical Junction Capacitance *2	C _j	15					pF		
Typical thermal resistance *3	R_{thJA}	50					°C/W		
Junction Temperature	T _j	150					%		
Storage Temperature	T _{stg}	-55 to 150					℃		

 $^{^{\}star}$ 1 Reverse recovery conditon $\rm I_F$ = 0.5 A, $\rm I_R$ = 1 A, Irr = 0.25 A

■ Marking

NO.	FR101	FR102	FR103	FR104	FR105	FR106	FR107
Marking	RS1A	RS1B	RS1D	RS1G	RS1J	RS1K	RS1M

^{* 2} Measured at 1MHz and applied reverse voltage of 4V D.C

^{* 3} P.C.B. mounted with 0.2×0.2" (5×5mm) copper pad areas

SMD Type Diodes

Fast Recovery Rectifier FR101 ~ FR107

■ Typical Characterisitics

Fig.1 Forward Current Derating Curve

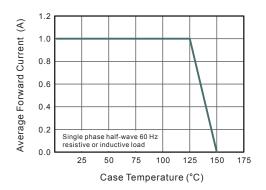


Fig.2 Typical Reverse Characteristics

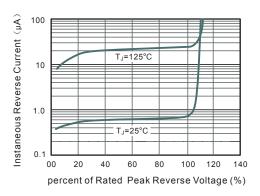


Fig.3 Typical Instaneous Forward Characteristics

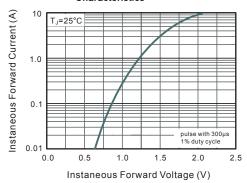


Fig.4 Typical Junction Capacitance

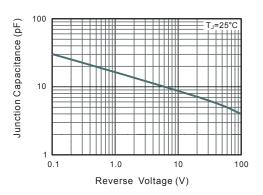
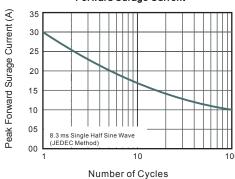


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current



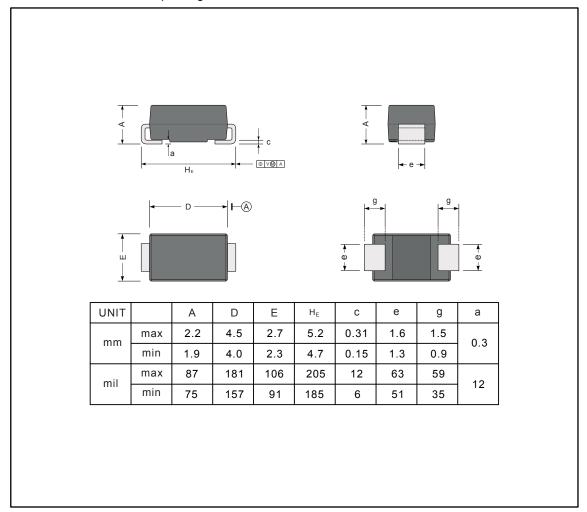
SMD Type Diodes

Fast Recovery Rectifier FR101 ~ FR107

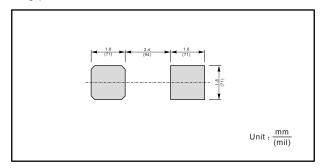
■ Package Outline Dimensions

Plastic surface mounted package; 2 leads

SMA



■ The recommended mounting pad size



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