

Features

- * Ideal for surface mount applications
- * Easy pick and place
- * Built-in strain relief
- * Fast switching speed



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)			
RS5x	SMB	RS5x	3000			



SMB → |**∢** — ∘

Maximum Ratings (Ta=25 unless otherwise noted)

Type Number		RS5B	RS5D	RS5G	RS5J	RS5K	RS5M	Units	
Maximum Recurrent Peak Reverse Voltage		100	200	400	600	800	1000	V	
Maximum RMS Voltage		70	140	280	420	560	700	V	
Maximum DC Blocking Voltage		100	200	400	600	800	1000	V	
Maximum Average Forward Rectified Current		•	•	•			•		
at Ta=75°C		5.0							
Peak Forward Surge Current, 8.3 ms single half sine-wave									
superimposed on rated load (JEDEC method)		150							
Maximum Instantaneous Forward Voltage at 5.0A		1.3							
Maximum DC Reverse Current Ta=25°C		5.0							
at Rated DC Blocking Voltage Ta=125°C		350						μΑ	
Maximum Reverse Recovery Time (Note 1)		150			250	50	00	nS	
Typical Junction Capacitance (Note 2)		70							
Operating and Storage Temperature Range Тл, Тэтс		-65—+150							

NOTES:

- 1. Reverse Recovery Time test condition: IF=0.5A, IR=1.0A, IRR=0.25A
- 2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.



Typical Characteristics

FIG.1-TYPICAL FORWARD

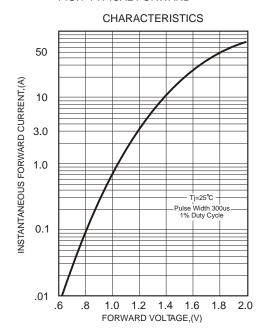
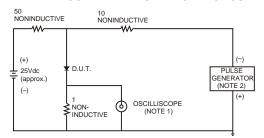


FIG.3- TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTICS



NOTES: 1. Rise Time= 7ns max., Input Impedance= 1 megohm.22pF

2. Rise Time= 10ns max., Source Impedance= 50 ohms.

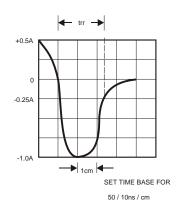


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

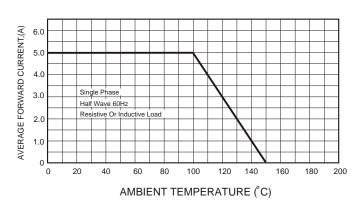


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

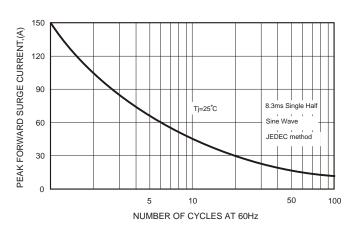
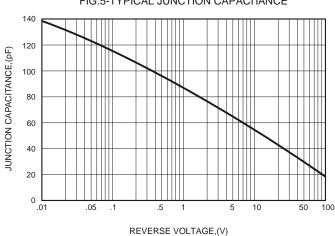
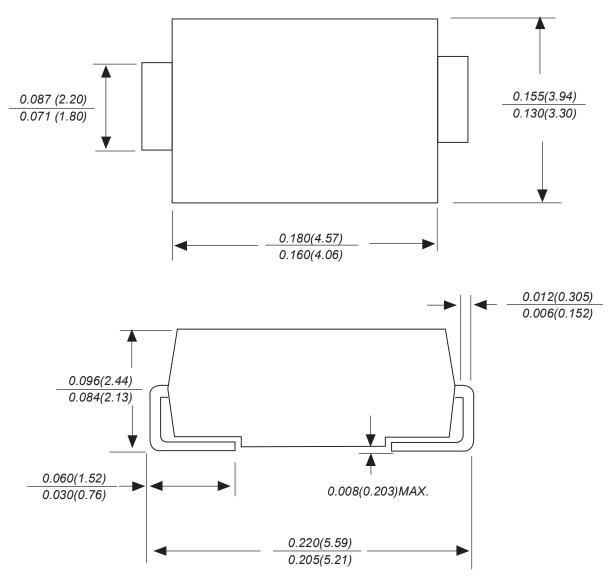


FIG.5-TYPICAL JUNCTION CAPACITANCE





Package Outline Dimensions SMB



Dimensions in inches and (millimeters)



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