MSKSEMI















ESD

TVS

TSS

MOV

GDT

PLED

Broduct data sheet







SMC

FEATURES

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

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Metallurgically bonded construction
- * Polarity: Color band denotes cathode end
- * Mounting position: Any
- * Weight: 0.21 grams

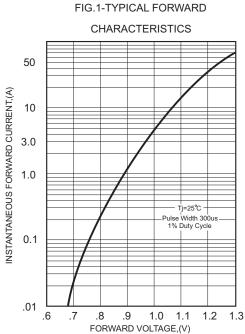
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature uniess otherwies specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

P/N(MARK)	S5A	S5B	S5D	S5G	S5J	S5K	S5M	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					Α	
Peak Forward Surge Current, 8.3 ms single half sine-wave								
superimposed on rated load (JEDEC method)		120					Α	
Maximum Instantaneous Forward Voltage at 5.0A		1.10					V	
Maximum DC Reverse Current Ta=25°C		5.0				μΑ		
at Rated DC Blocking Voltage Ta=125°C		250					μА	
Typical Junction Capacitance (Note1)		60				pF		
Typical Thermal Resistance RθJL (Note 2)		13				°C/W		
Operating and Storage Temperature Range TJ, Tstg		-65 — +150				°C		

- 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
- 2. Thermal Resistance Junction to Lead.

RATING AND CHARACTERISTIC CURVES (S5A THRU S5M)





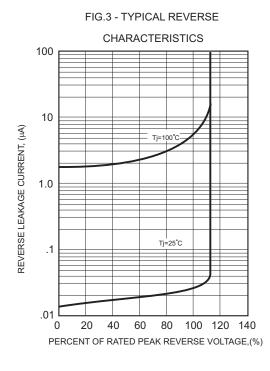


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

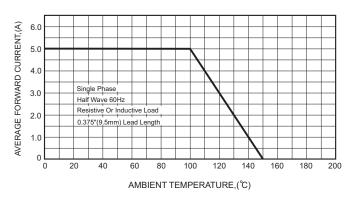
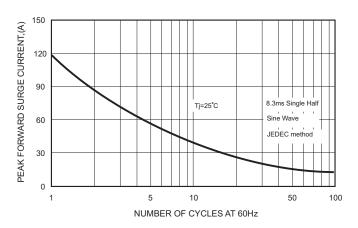
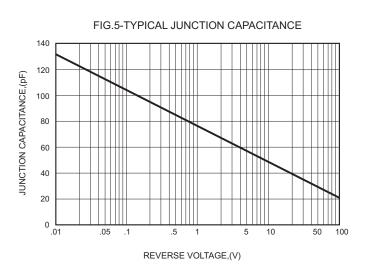


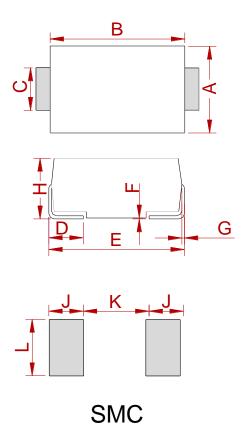
FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT







PACKAGE MECHANICAL DATA



	Dimensions					
Ref.	Millimeters		Inches			
	Min.	Max.	Min.	Max.		
Α	5.75	6.25	0.226	0.246		
В	6.90	7.40	0.272	0.291		
С	2.75	3.25	0.108	0.128		
D	0.95	1.52	0.037	0.060		
E	7.70	8.20	0.303	0.323		
F	0.051	0.203	0.002	0.008		
G	0.15	0.31	0.006	0.012		
Н	2.15	2.62	0.085	0.103		
J	2.40		0.094			
K		4.20		0.165		
L	3.30		0.130			

REEL SPECIFICATION

P/N	PKG	QTY
S5A THRU S5M	SMC	3000



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