MSKSEMI















ESD

TVS

TSS

MOV

GDT

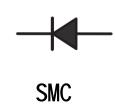
PLED

Broduct data sheet



VOLTAGE RANGE 50 to 1000 Volts CURRENT 10.0 Ampere





FEATURES

- * Ideal for surface mount applications
- * Easy pick and place
- * Built-in strain relief
- * Low forward voltage drop

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 unless otherwies specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

P/N(MARK)	S10A	S10B	S10D	S10G	S10J	S10K	S10M	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	10.0					Α		
Peak Forward Surge Current, 8.3 ms single half sine-wave								
superimposed on rated load (JEDEC method)		175					Α	
Maximum Instantaneous Forward Voltage at 10.0A		1.10					V	
Maximum DC Reverse Current Ta=25°C				5.0				μА
at Rated DC Blocking Voltage Ta=125°C				250				μА
Typical Junction Capacitance (Note1)		70				pF		
Typical Thermal Resistance RθJL (Note 2)		13				°C/W		
Operating and Storage Temperature Range Тл, Тsтс		-65 — +150				°C		

NOTES:

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



Compiance

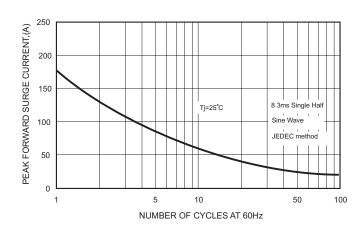
RATING AND CHARACTERISTIC CURVES (S10A THRU S10M)

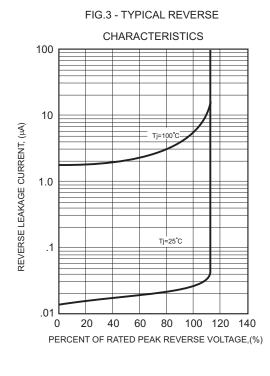
AVERAGE FORWARD CURRENT,(A) 12.0 10.0 8.0 Single Phase 6.0 Half Wave 60Hz Resistive Or Inductive Load 4.0 0.375"(9.5mm) Lead Length 2.0 0 20 40 100 120 140 160 180 200

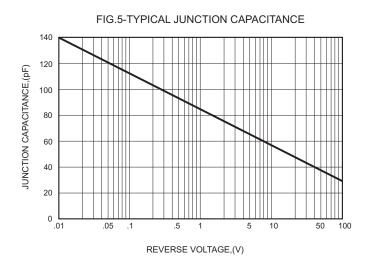
FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

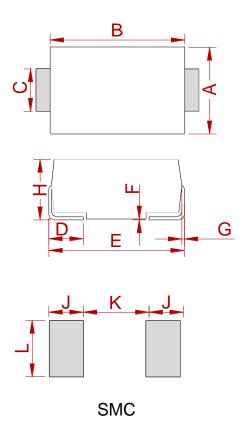
AMBIENT TEMPERATURE,(℃)







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
S10A THRU S10M	SMC	3000



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