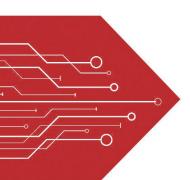
MSKSEMI















ESD

TVS

TSS

MOV

GDT

PLED

Brodnet data speet

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SMA

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

MECHANICAL DATA

Case: JEDEC DO-214AC molded plastic body

Terminals: Solder plated, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end Mounting Position: Any Weight: 0.003 ounce, 0.093 grams

0.004 ounce, 0.111 grams SMA(H)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified. Single phase half-wave 60Hz,resistive or inductive load,for capacitive load current derate by 20%.

Characteristic	SYMBOLS	RS1A	RS1B	RS1D	RS1G	RS1J	RS1K	RS1M	UNITS
Maximum repetitive peak reverse voltage		50	100	200	400	600	800	1000	V
Maximum RMS voltage		35	70	140	280	420	560	700	V
Maximum DC blocking voltage		50	100	200	400	600	800	1000	V
Maximum average forward rectified current at TL=90°C	l(AV)	1.0		•	Α				
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	İFSM	30.0		А					
Maximum instantaneous forward voltage at 1.0A	VF	1.3		V					
Maximum DC reverse current Ta=25°C at rated DC blocking voltage Ta=100°C	lR	5.0 50.0		μΑ					
Maximum reverse recovery time (NOTE 1)	trr		15	0		250	50	00	ns
Typical junction capacitance (NOTE 2)	Cı	CJ 15.0		pF					
Typical thermal resistance (NOTE 3)	Reja	50.0		°C/W					
Operating junction and storage temperature range	ТЈ, Тѕтс	-65 to +150			°C				

Note:1.Reverse recovery condition IF=0.5A,IR=1.0A,Irr=0.25A 2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

3.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas





FIG. 1- FORWARD CURRENT DERATING CURVE 1.0 8.0 0.6 Single Phase Half Wave 60Hz Resistive or inductive Load 0.2 0 25 75 0 50 100 125 150 175 AMBIENT TEMPERATURE,°C

PEAK FORWARD SURGE CURRENT, AMPERES

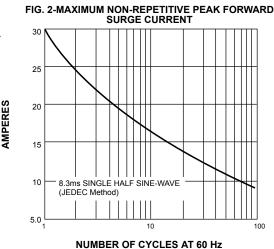


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

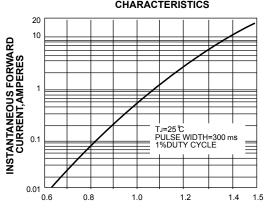
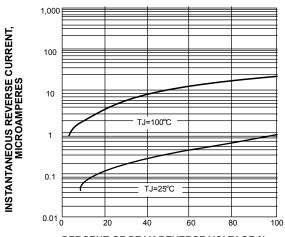
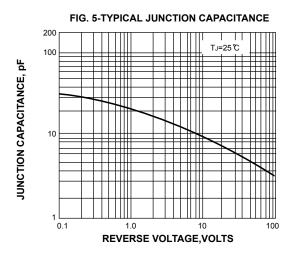


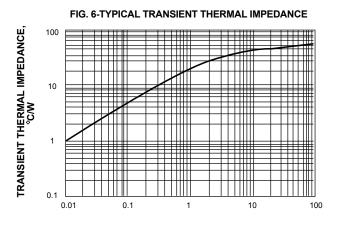
FIG. 4-TYPICAL REVERSE CHARACTERISTICS



INSTANTANEOUS FORWARD VOLEAGE, VOLTS

PERCENT OF PEAK REVERSE VOLTAGE,%





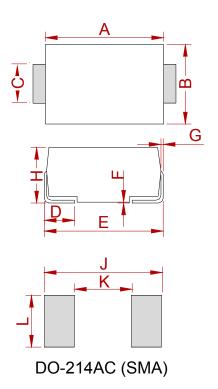
t,PULSE DURATION,sec.







PACKAGE MECHANICAL DATA



	Dimensions						
Ref.	Millir	neters	Inches				
	Min.	Max.	Min.	Max.			
Α	4.25	4.65	0.167	0.183			
В	2.50	2.90	0.098	0.114			
С	1.35	1.65	0.053	0.065			
D	0.76	1.52	0.030	0.060			
Е	4.93	5.28	0.194	0.208			
F	0.051	0.203	0.002	0.008			
G	0.15	0.31	0.006	0.012			
Н	1.98	2.41	0.078	0.095			
J	6.50		0.256				
K		2.30		0.090			
L	1.70		0.067				

REEL SPECIFICATION

P/N	PKG	QTY
RS1A THRU RS1M	SMA	2000



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