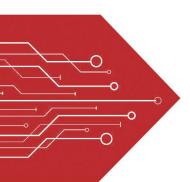
MSKSEMI















ESD

TVS

TSS

MOV

GDT

PLED

Broduct data sheet









SMB

FEATURES

- Plastic package has underwrites laboratory flammability Classification 94V-0
- Low profile surface mount package
- Built-in strain relief
- Fast switching for high efficiency
- Glass Passivated chip junction
- High temperature soldering: 250°C/10 second at terminals

MECHANICAL DATA

- Case: JEDED DO-214AA molded plastic over glass passivated chip
- Terminals: Solder plated, Solderable per MIL-STD-750, method 2026
- Polarity: Color band denotes cathode end Weight: 0.002ounce, 0.064 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified

MAXIMUM RATINGS & THERMAL CHARACTERISTICS

PARAMETELS	SYMBOLS	RS2A	RS2B	RS2D	RS2G	RS2J	RS2K	RS2M	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at T_L =100 $^{\circ}$ C	$I_{F(AV)}$	2.0				Amps			
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC method) T_L =100 $^{\circ}$ C	I_{FSM}	ъм 50				Amps			
Typical Thermal Resistance (NOTE 1)	$R_{\theta JA}$	55							°C/W
Typical Thermal Resistance (NOTE 1)	$R_{ heta JL}$	18							C/ VV
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to +150				$^{\circ}$			

ELECTRICAL CHARACTERISTICS

PARAMETELS		SYMBOLS	RS2A	RS2B	RS2D	RS2G	RS2J	RS2K	RS2M	UNIT
Maximum Instantaneous Forward Voltage at 2.0A		V_{F}	1.30						Volts	
Maximum DC Reverse Current at rated DC Blocking Voltage	$T_A = 25 ^{\circ}C$ $T_A = 125 ^{\circ}C$	$ I_R$	5.0 200			μΑ				
Typical Reverse Recovery Time I _F =0.5A, I _R =1.0A, I _{RR} =0.25A,		T_{rr}	150		250	50	00	ns		
Typical junction capacitance at 4.0V, 1MHz $C_{ m J}$		C_{J}	30				pF			

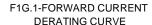
Notes:

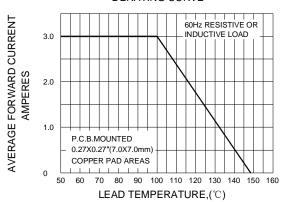
1. Thermal resistance from Junction to ambient and from junction to lead mounted on P.C.B. with $0.27 \times 0.27''$ (7.0 × 7.0mm) copper pad areas.



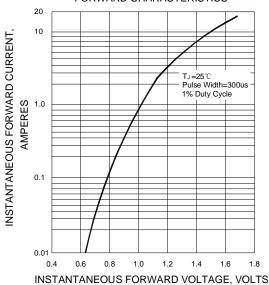
100



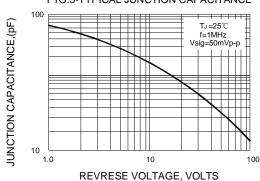




F1G.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



F1G.5-TYPICAL JUNCTION CAPACITANCE



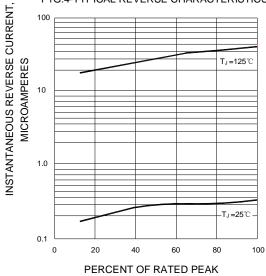
F1G.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PEAK FORWARD SURGE CURRENT, 50 T∟=100°C 8.3ms Single Half Sine-Wave (JEDEC Method) 40 AMPERES 30 20 10

0

F1G.4-TYPICAL REVERSE CHARACTERISTICS

10

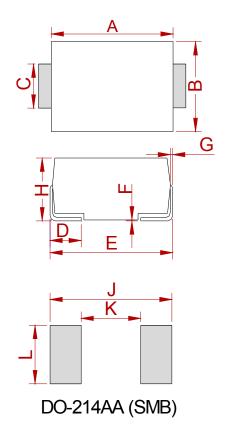
NUMBER OF CYCLES AT 60 Hz



REVERSE VOLTAGE,(%)



PACKAGE MECHANICAL DATA



	Dimensions						
Ref.	Millimeters		Inc	hes			
	Min.	Max.	Min.	Max.			
Α	4.25	4.75	0.167	0.187			
В	3.30	3.94	0.130	0.155			
С	1.85	2.21	0.073	0.087			
D	0.76	1.52	0.030	0.060			
Е	5.08	5.59	0.200	0.220			
F	0.051	0.203	0.002	0.008			
G	0.15	0.31	0.006	0.012			
Н	2.11	2.44	0.083	0.096			
J	6.80		0.270				
K		2.60		0.100			
L	2.40		0.090				

REEL SPECIFICATION

P/N	PKG	QTY
RS2A THRU RS2M	SMB	3000



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