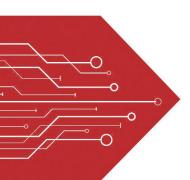
MSKSEMI















ESD

TVS

TSS

MOV

GDT

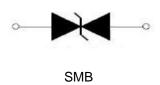
PLED

Brodnet data speet

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Features

Low capatcitance Cannot be damaged by voltage Will not fatigue Eliminate voltage overshoot Glass passivated junction Halogen free and RoHS compliant

Mechanical Data

CASE: SMB(DO-214AA) Molded Plastic UL Flammability Classification Rating 94V0 Mounting Position:Any

Maximum Ratings & Thermal Characteristics (Ratings at 25°C ambient temperature unless otherwise specified.)

Parameter	Symbol	Value	Units	Remarks
Peak Pulse Voltage	V_{PP}	6000	V	10/700us
Peak Pulse Current	I PP	100	Α	10/1000us
Peak Pulse Current	I _{PK}	400	А	8/20us
Peak One-cycle Surge Current	I _{TSM}	30	Α	60Hz
Rate of Rise of Current	di/dt	500	A/us	
Typical Thermal Resistance Junction to Lead	$R_{\theta JL}$	20	°C/W	
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	100	°C/W	
Operating Temperature Range	TJ	-40 to 150	°C	
Storage Temperature Range	T _{STG}	-55 to 150	°C	

Electrical Characteristics

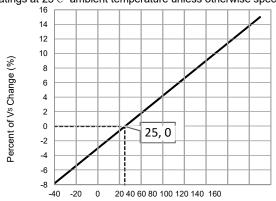
(Ratings at 25 $^{\circ}$ C ambient temperature unless otherwise specified).

P/N	Mark	V s @100KV/S V MAX	I _{S_LMT} mA	V _T @ I _T	I _T	I _D @ V _D uA MAX	V _D	C ₀ @1MHz,2V _{DC} pF TYP	I H mA MAX
P4200SC-MS	P42C	520	800	4	2.2	5	400	45	100



Ratings and Characteristic Curves

(Ratings at 25°C ambient temperature unless otherwise specified).



 T_J - Junction Temperature (°C) Fig.1 - Peak Pulse Current Rating

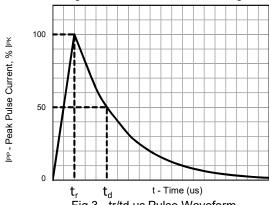


Fig.3 - tr/td us Pulse Waveform 10000 1000 IPP - Peak Pulse Current (A) 100 10 1 0.1 1000 td - Pulse Width (us)

Fig.5 - Peak Pulse Current Rating

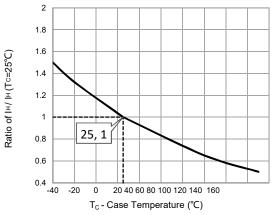
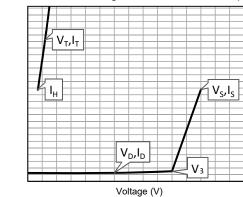
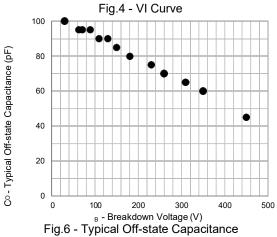


Fig.2 - Normalized DC Holding Current vs. Case Temperature



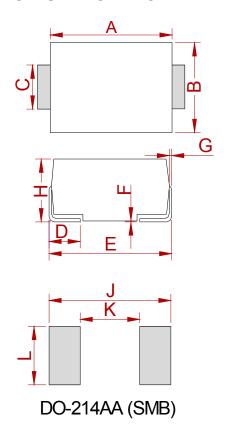
Current (A)







PACKAGE MECHANICAL DATA



	Dimensions				
Ref.	Millir	neters	Inches		
	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
P4200SC-MS	SMB	3000



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