

SMA


Symbol

Features

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

Mechanical Data

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

Making Code & information

<div style="border: 1px solid black; padding: 5px; display: inline-block;"> PxxxxB YYWW </div>	PxxxxB = Type Code YYWW = Date Code	<table border="1"> <thead> <tr> <th>Package</th> <th>Packing Description</th> <th>Packing Quantity</th> </tr> </thead> <tbody> <tr> <td>SMA</td> <td>Tape/Reel, 11" reel</td> <td>5000</td> </tr> </tbody> </table>	Package	Packing Description	Packing Quantity	SMA	Tape/Reel, 11" reel	5000
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Maximum Ratings & Thermal Characteristics

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

Parameter	Symbol	Value	Units	Remarks
Peak Pulse Voltage	V_{PP}	4000	V	10/700us
Peak Pulse Current	I_{PP}	80	A	10/1000us
Peak Pulse Current	I_{PK}	250	A	8/20us
Peak One-cycle Surge Current	I_{TSM}	25	A	60Hz
Rate of Rise of Current	di/dt	500	A/us	
Typical Thermal Resistance Junction to Lead	$R_{\theta JL}$	30	°C/W	
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	120	°C/W	
Operating Temperature Range	T_J	-40 to 150	°C	
Storage Temperature Range	T_{STG}	-55 to 150	°C	

Electrical Characteristics

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

Part Number	Marking	$V_S @ 100KV/S$ V MAX	I_{S_LMT} mA	$V_T @ I_T$ V MAX	I_T A	$I_D @ V_D$ uA MAX	V_D V	$C_O @ 1MHz, 2V_{DC}$ pF TYP	I_H mA MIN
P0080TB-MC	P008B	25	500	4	2.2	5	6	29	40
P0220TB-MC	P02B	30	500	4	2.2	5	15	29	40
P0300TB-MC	P03B	40	500	4	2.2	5	25	28	40
P0640TB-MC	P06B	77	800	4	2.2	5	58	27	120
P0720TB-MC	P07B	88	800	4	2.2	5	65	27	120
P0900TB-MC	P09B	98	800	4	2.2	5	75	27	120
P1100TB-MC	P11B	130	800	4	2.2	5	90	25	120
P1300TB-MC	P13B	160	800	4	2.2	5	120	25	120
P1500TB-MC	P15B	180	800	4	2.2	5	140	24	120
P1800TB-MC	P18B	220	800	4	2.2	5	170	22	120
P2300TB-MC	P23B	260	800	4	2.2	5	190	21	120
P2600TB-MC	P26B	300	800	4	2.2	5	220	20	120
P3100TB-MC	P31B	350	800	4	2.2	5	275	18	120
P3500TB-MC	P35B	400	800	4	2.2	5	320	17	120
P4500TB-MC	P45B	530	800	4	2.2	5	400	13	120

Ratings and Characteristic Curves

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

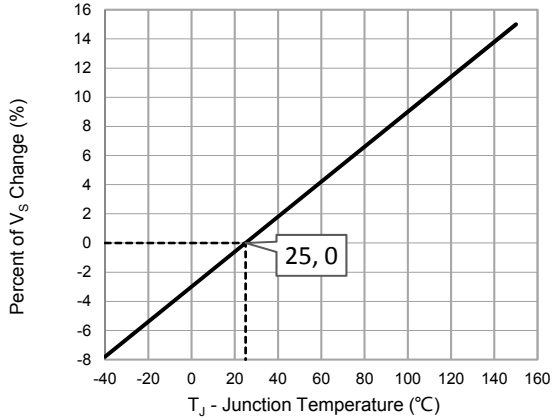


Fig.1 - Peak Pulse Current Rating

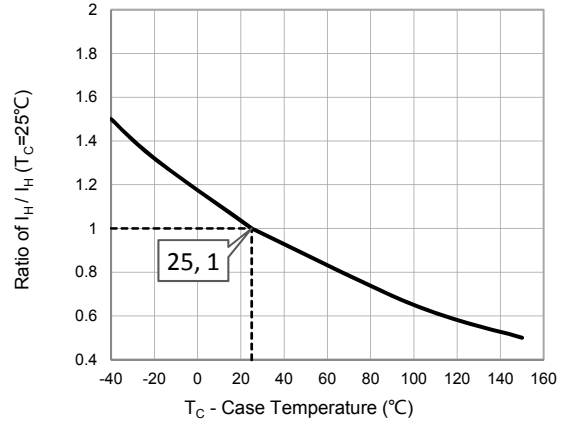


Fig.2 - Normalized DC Holding Current vs. Case Temperature

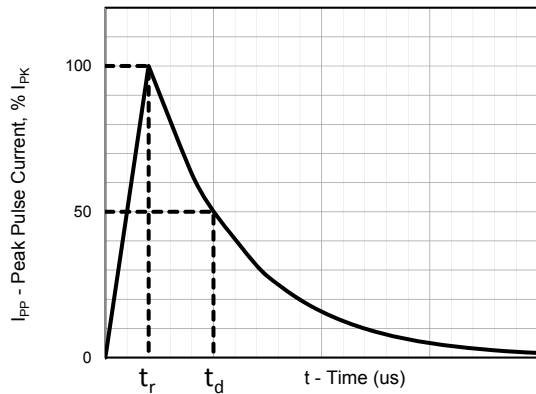


Fig.3 - tr/td us Pulse Waveform

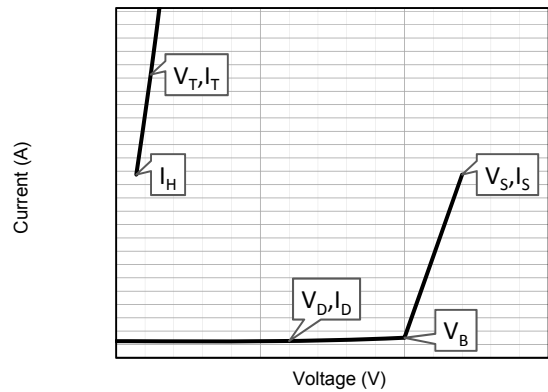


Fig.4 - VI Curve

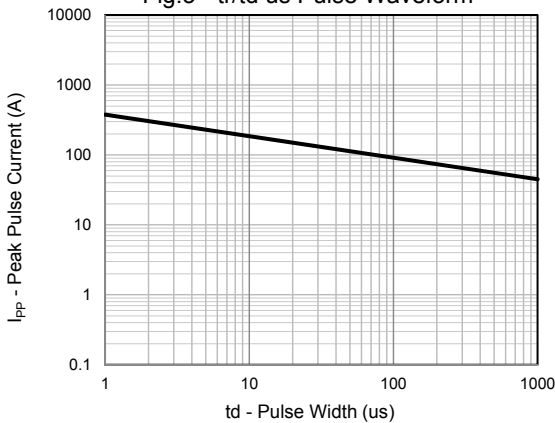


Fig.5 - Peak Pulse Current Rating

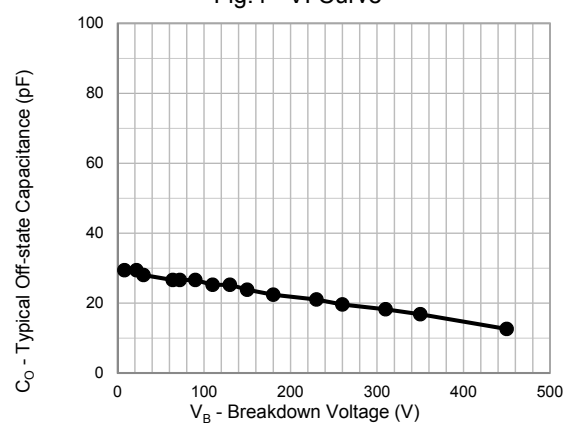


Fig.6 - Typical Off-state Capacitance

Package Outline Dimensions: SMA(DO-214AC)

Dim	Millimeters		Inches	
	Min	Max	Min	Max
L	4.1	4.3	0.161	0.169
D	2.5	2.7	0.098	0.106
D1	1.3	1.5	0.051	0.059
T	4.8	5.2	0.189	0.205
T1	0.9	1.5	0.035	0.060
d	-	0.2	-	0.008
H	2.05	2.35	0.081	0.093
H1	2.0	2.2	0.079	0.087