

Features

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

Applications

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

Dimensions and Pin Configuration

SMA



Maximum Ratings & Thermal Characteristics

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

Parameter	Symbol	Value	Units	Remarks
Peak Pulse Voltage	V_{PP}	3000	V	10/700us
Peak Pulse Current	I_{PP}	45	A	10/1000us
Peak Pulse Current	I_{PK}	150	A	8/20us
Peak One-cycle Surge Current	I_{TSM}	20	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
TP0080TA	P008A	25	500	4	2.2	5	6	53	30
TP0220TA	P02A	30	500	4	2.2	5	15	53	30
TP0300TA	P03A	40	500	4	2.2	5	25	50	30
TP0640TA	P06A	77	800	4	2.2	5	58	48	120
TP0720TA	P07A	88	800	4	2.2	5	65	48	120
TP0900TA	P09A	98	800	4	2.2	5	75	48	120
TP1100TA	P11A	130	800	4	2.2	5	90	45	120
TP1300TA	P13A	160	800	4	2.2	5	120	45	120
TP1500TA	P15A	180	800	4	2.2	5	140	43	120
TP1800TA	P18A	220	800	4	2.2	5	170	40	120
TP2300TA	P23A	260	800	4	2.2	5	190	38	120
TP2600TA	P26A	300	800	4	2.2	5	220	35	120
TP3100TA	P31A	350	800	4	2.2	5	275	33	120
TP3500TA	P35A	400	800	4	2.2	5	320	30	120
TP4200TA	P42A	550	800	4	2.2	5	400	23	120

Typical Performance Characteristics (TA=25°C unless otherwise Specified)

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

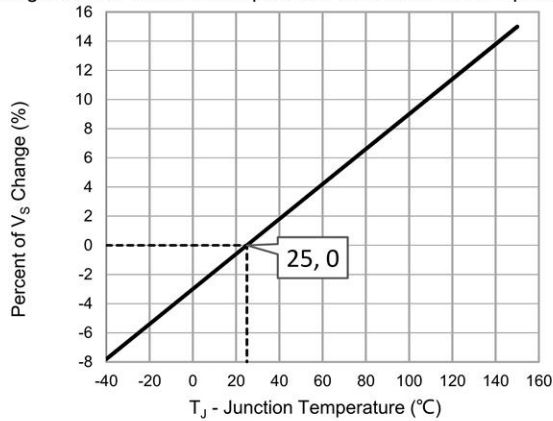


Fig.1 - Peak Pulse Current Rating

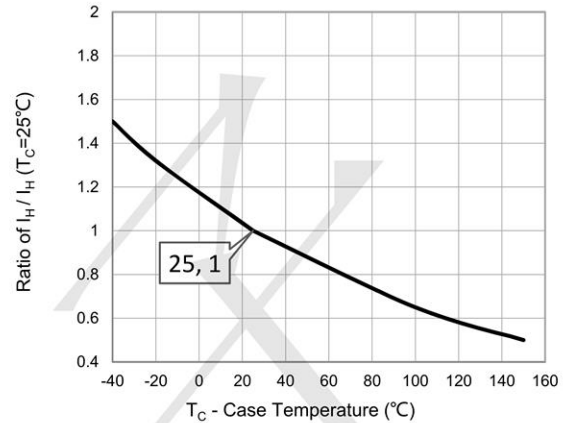


Fig.2 - Normalized DC Holding Current vs. Case Temperature

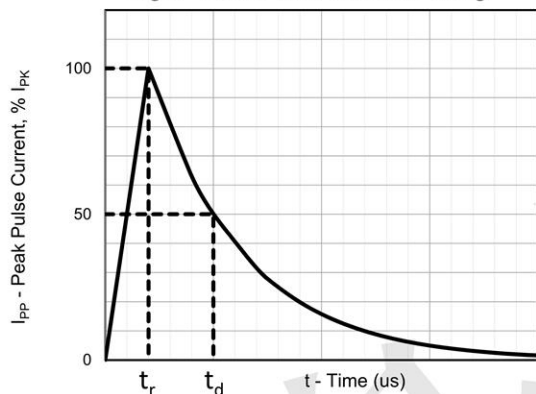


Fig.3 - tr/td us Pulse Waveform

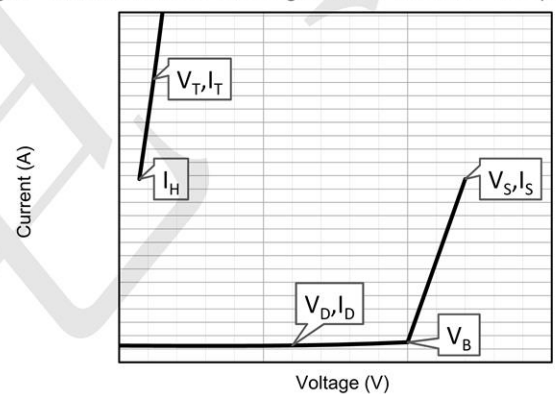


Fig.4 - VI Curve

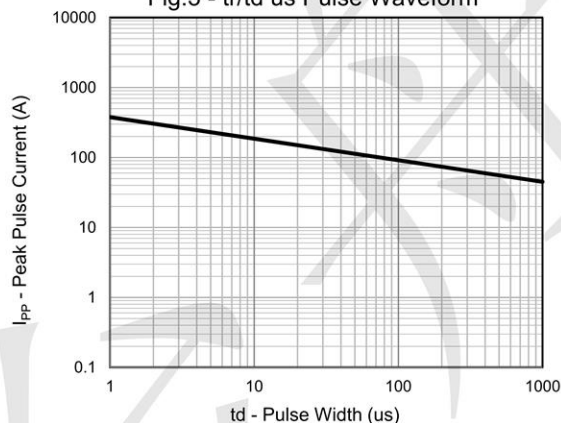


Fig.5 - Peak Pulse Current Rating

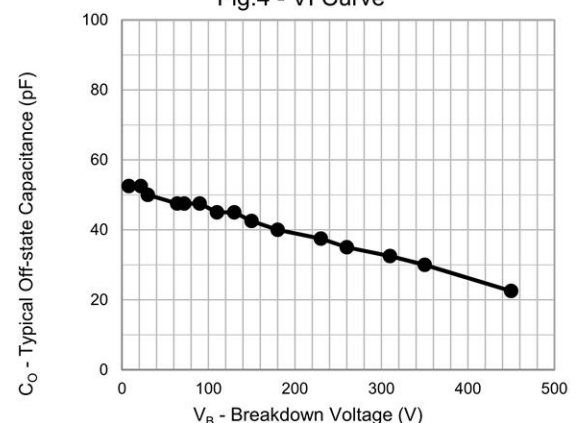


Fig.6 - Typical Off-state Capacitance

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