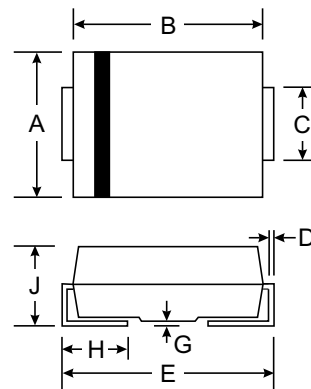
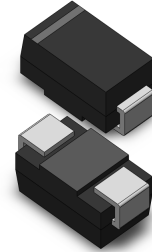


Features

- Glass passivated chip
- 400 W peak pulse power capability with a 10/1000 us waveform, repetitive rate (duty cycle):0.01 %
- Excellent clamping capability
- Low reverse leakage
- Very fast response time
- Lead and body according with RoHS standard

Mechanical Data

- Case:DO-214AC/(SMA) Molded plastic
- Lead: Solderable per MIL-STD-750, method 2026
- Epoxy: UL 94V-0 rate flame retardant
- Polarity: Color band denotes cathode end except Bipolar
- Mounting position: Any



SMA(DO-214AC)		
Dim	Min	Max
A	2.29	2.92
B	4.00	4.60
C	1.27	1.63
D	0.15	0.31
E	4.80	5.59
G	0.10	0.20
H	0.76	1.52
J	2.01	2.62
All Dimensions in mm		

Maximum Ratings and Electrical Characteristics T_A = 25°C unless otherwise specified

Parameter	Symbols	Value	Unit
Peak power dissipation with a 10/1000 us waveform ⁽¹⁾	P _{PP}	400	W
Peak pulse current with a 10/1000 us waveform ⁽¹⁾	I _{PP}	See Next Table	A
Power dissipation on infinite heatsink at T _A = 50 °C	P _D	3.3	W
Peak forward surge current, 8.3 ms single half sinewave unidirectional only ⁽²⁾	I _{FSM}	40	A
Typical thermal resistance junction to lead	R _{θJL}	30	°C/W
Typical thermal resistance junction to ambient	R _{θJA}	120	°C/W
Operating junction and storage temperature range	T _J , T _{STG}	-65 to +150	°C

Note:

1)Non-repetitive current pulse per Fig.5 and derated above T_A= 25 °C per Fig.1 ;

2)Measured on 8.3 ms single half sine-wave or equivalent square wave, duty cycle = 4 pulses per minute maximum ;

Part Number		Reverse Stand-off Voltage	Breakdown Voltage $V_{BR} @ I_T$		Test Current	Max. Clamping Voltage @ I_{PP}	Max. Peak Pulse Current	Max. Reverse Leakage @ V_{RWM}
UNI-POLAR	BI-POLAR	$V_{RWM}(V)$	Min.(V)	Max.(V)	$I_T(mA)$	$V_{C MAX}(V)$	$I_{PP}(A)$	$I_R(\mu A)$
TP4SMA6.8A	TP4SMA6.8CA	5.8	6.45	7.14	10	10.5	39.0	1000
TP4SMA7.5A	TP4SMA7.5CA	6.4	7.13	7.88	10	11.3	36.3	500
TP4SMA8.2A	TP4SMA8.2CA	7.0	7.79	8.61	10	12.1	33.9	200
TP4SMA9.1A	TP4SMA9.1CA	7.8	8.65	9.55	1	13.4	30.6	50
TP4SMA10A	TP4SMA10CA	8.6	9.50	10.50	1	14.5	28.3	10
TP4SMA11A	TP4SMA11CA	9.4	10.50	11.60	1	15.6	26.3	5
TP4SMA12A	TP4SMA12CA	10.2	11.40	12.60	1	16.7	24.6	5
TP4SMA13A	TP4SMA13CA	11.1	12.40	13.70	1	18.2	22.5	1
TP4SMA15A	TP4SMA15CA	12.8	14.30	15.80	1	21.2	19.3	1
TP4SMA16A	TP4SMA16CA	13.6	15.20	16.80	1	22.5	18.2	1
TP4SMA18A	TP4SMA18CA	15.3	17.10	18.90	1	25.5	16.1	1
TP4SMA20A	TP4SMA20CA	17.1	19.00	21.00	1	27.7	14.8	1
TP4SMA22A	TP4SMA22CA	18.8	20.90	23.10	1	30.6	13.4	1
TP4SMA24A	TP4SMA24CA	20.5	22.80	25.20	1	33.2	12.3	1
TP4SMA27A	TP4SMA27CA	23.1	25.70	28.40	1	37.5	10.9	1
TP4SMA30A	TP4SMA30CA	25.6	28.50	31.50	1	41.4	9.9	1
TP4SMA33A	TP4SMA33CA	28.2	31.40	34.70	1	45.7	9.0	1
TP4SMA36A	TP4SMA36CA	30.8	34.20	37.80	1	49.9	8.2	1
TP4SMA39A	TP4SMA39CA	33.3	37.10	41.00	1	53.9	7.6	1
TP4SMA43A	TP4SMA43CA	36.8	40.90	45.20	1	59.3	6.9	1
TP4SMA47A	TP4SMA47CA	40.2	44.70	49.40	1	64.8	6.3	1
TP4SMA51A	TP4SMA51CA	43.6	48.50	53.60	1	70.1	5.8	1
TP4SMA56A	TP4SMA56CA	47.8	53.20	58.80	1	77.0	5.3	1
TP4SMA62A	TP4SMA62CA	53.0	58.90	65.10	1	85.0	4.8	1
TP4SMA68A	TP4SMA68CA	58.1	64.60	71.40	1	92.0	4.5	1
TP4SMA75A	TP4SMA75CA	64.1	71.30	78.80	1	103.0	4.0	1
TP4SMA82A	TP4SMA82CA	70.1	77.90	86.10	1	113.0	3.6	1
TP4SMA91A	TP4SMA91CA	77.8	86.50	95.50	1	125.0	3.3	1
TP4SMA100A	TP4SMA100CA	85.5	95.0	105.0	1	137.0	3.0	1
TP4SMA110A	TP4SMA110CA	94.0	105.0	116.0	1	152.0	2.7	1
TP4SMA120A	TP4SMA120CA	102.0	114.0	126.0	1	165.0	2.5	1
TP4SMA130A	TP4SMA130CA	111.0	124.0	137.0	1	179.0	2.3	1
TP4SMA150A	TP4SMA150CA	128.0	143.0	158.0	1	207.0	2.0	1
TP4SMA160A	TP4SMA160CA	136.0	152.0	168.0	1	219.0	1.9	1
TP4SMA170A	TP4SMA170CA	145.0	162.0	179.0	1	234.0	1.8	1
TP4SMA180A	TP4SMA180CA	154.0	171.0	189.0	1	246.0	1.7	1
TP4SMA200A	TP4SMA200CA	171.0	190.0	210.0	1	274.0	1.5	1
TP4SMA220A	TP4SMA220CA	185.0	209.0	231.0	1	328.0	1.3	1
TP4SMA250A	TP4SMA250CA	214.0	237.0	263.0	1	344.0	1.2	1
TP4SMA300A	TP4SMA300CA	256.0	285.0	315.0	1	414.0	1.0	1
TP4SMA350A	TP4SMA350CA	300.0	332.0	368.0	1	482.0	0.9	1
TP4SMA400A	TP4SMA400CA	342.0	380.0	420.0	1	548.0	0.8	1
TP4SMA440A	TP4SMA440CA	376.0	418.0	462.0	1	602.0	0.7	1
TP4SMA480A	TP4SMA480CA	408.0	456.0	504.0	1	658.0	0.6	1
TP4SMA510A	TP4SMA510CA	434.0	485.0	535.0	1	698.0	0.6	1
TP4SMA530A	TP4SMA530CA	450.0	503.0	556.0	1	725.0	0.6	1
TP4SMA540A	TP4SMA540CA	459.0	513.0	567.0	1	740.0	0.5	1
TP4SMA550A	TP4SMA550CA	467.0	522.5	577.5	1	760.0	0.5	1
TP4SMA600A	TP4SMA600CA	509.0	570.0	630.0	1	780.0	0.5	1

Ratings and Characteristic Curves $T_A = 25^\circ\text{C}$ unless otherwise noted

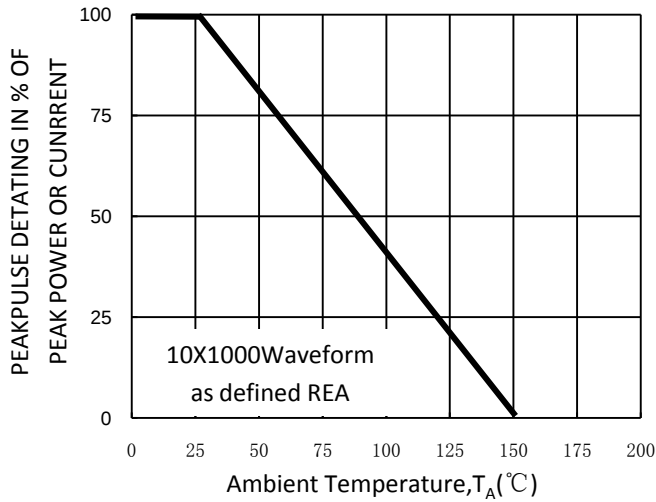


Fig. 1-Pulse Derating Curve

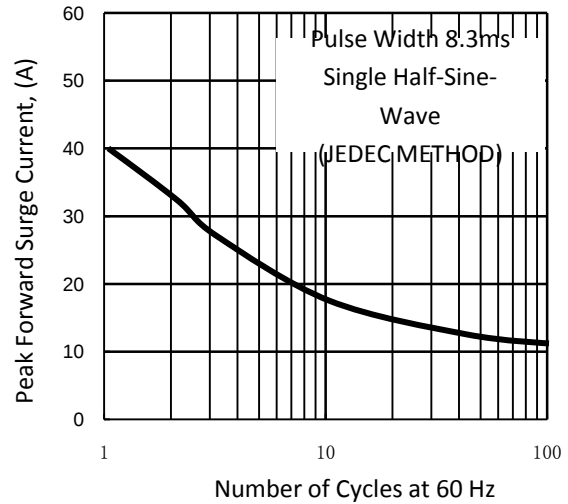


Fig. 2-Maximum Non-Repetitive Surge Current

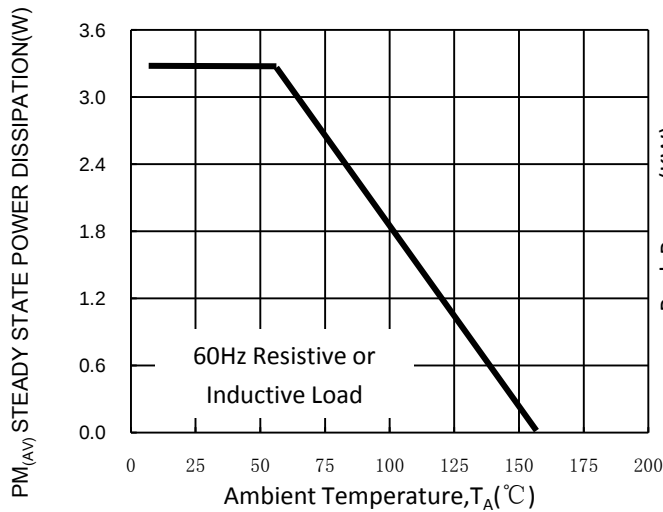


Fig. 3-Steady State Power Derating Curve

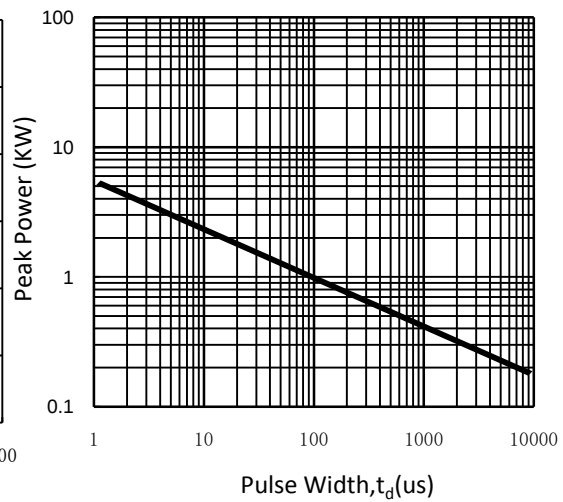


Fig. 4-Peak Pulse Power Rating Curve

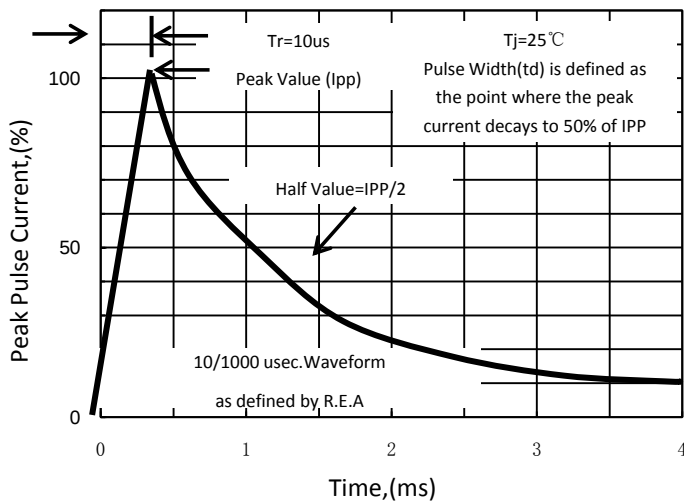


Fig. 5-Pulse Waveform

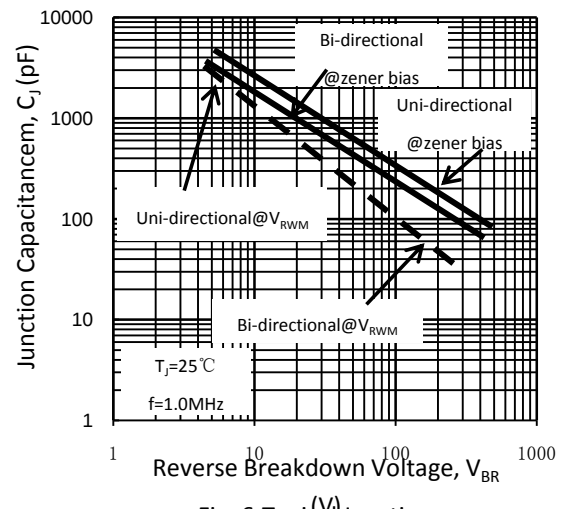


Fig. 6-Typical Junction Capacitance