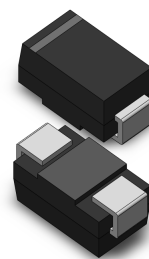


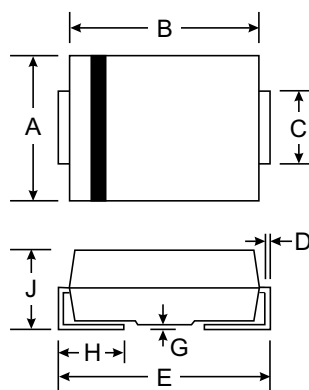
Features

- Low voltage overshoot
- Low on-state voltage
- Does not degrade surge capability after multiple surge events within limit
- Fails short circuit when surged in excess of ratings
- Low Capacitance



Mechanical Data

- Case: SMA/DO-214AC, Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.064 grams (approx.)



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		

Surge Ratings

Series	2/10 S ¹	8/20 S ¹	10/160 S ¹	10/560 S ¹	10/1000 S ¹	5/310 S ¹	I _{TSM} 50/60 Hz	di/dt
	2/10 S ²	1.2/50 S ²	10/160 S ²	10/560 S ²	10/1000 S ²	10/700 S ²		
	A min	A min	A min	A min	A min	A min		
A	150	150	90	50	45	50	20	500

Notes:

1. Current waveform in μ s
2. Voltage waveform in μ s

- Peak pulse current rating (I_{PP}) is repetitive and guaranteed for the life of the product.
- I_{PP} ratings applicable over temperature range of -40 °C to +85 °C
- The device must initially be in thermal equilibrium with -40 °C < T_J < +150 °C

Thermal Considerations

Symbol	Parameter	Value	Unit
T _J	Operating Junction Temperature Range	- 40 to + 150	°C
T _S	Storage Temperature Range	- 40 to +150	°C
R _{θJA}	Thermal Resistance: Junction to Ambient	90	°C/W

Part Number	Marking	V_{DRM} @ $I_{DRM}=5$ A	V_S @100V/ S	V_T @ $I_T=2.2$ A	I_S	I_T	I_H	C_0 @1MHz	
		V min	V max	V max	mA max	A max	mA min	pF min	pF max
P0080TA	P008A	6	25	4	800	2.2	50	25	50
P0300TA	P03A	25	40	4	800	2.2	50	15	70
P0640TA	P06A	58	77	4	800	2.2	150	40	50
P0720TA	P07A	65	88	4	800	2.2	150	35	50
P0900TA	P09A	75	98	4	800	2.2	150	25	45
P1100TA	P11A	90	130	4	800	2.2	150	30	45
P1300TA	P13A	120	160	4	800	2.2	150	25	45
P1500TA	P15A	140	180	4	800	2.2	150	25	40
P1800TA	P18A	170	220	4	800	2.2	150	25	40
P2000TA	P20A	180	220	4	800	2.2	150	20	40
P2300TA	P23A	190	260	4	800	2.2	150	25	35
P2600TA	P26A	220	300	4	800	2.2	150	20	35
P3100TA	P31A	275	350	4	800	2.2	150	20	30
P3500TA	P35A	320	400	4	800	2.2	150	20	30
P4000TA	P40A	360	460	4	800	2.2	150	20	30
P4500TA	P45A	400	540	4	800	2.2	150	20	30
P5000TA	P50A	440	600	4	800	2.2	150	20	30

Notes:

- Absolute maximum ratings measured at $T_A=25$ C (unless otherwise noted).
- Devices are bi-directional.

Characteristic Curves

Figure1 - V-I Characteristics

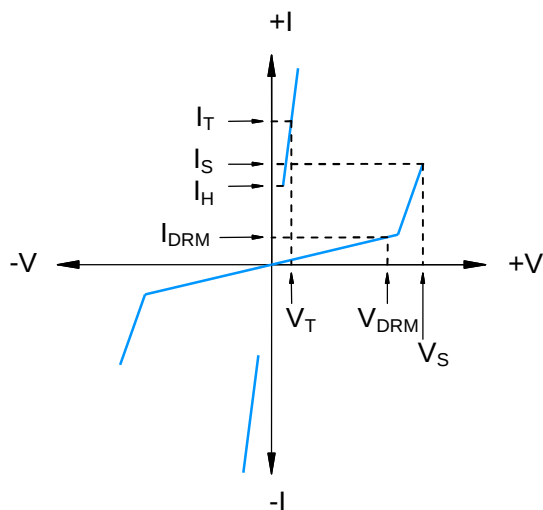


Figure 2- t_r t_d PulseWaveform

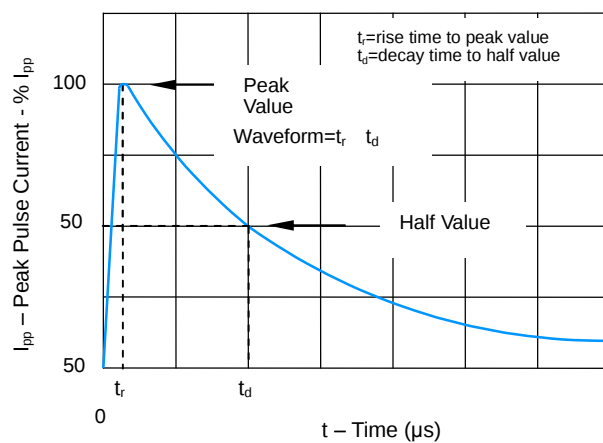


Figure3-Normalized V_S Change Versus Junction Temperature

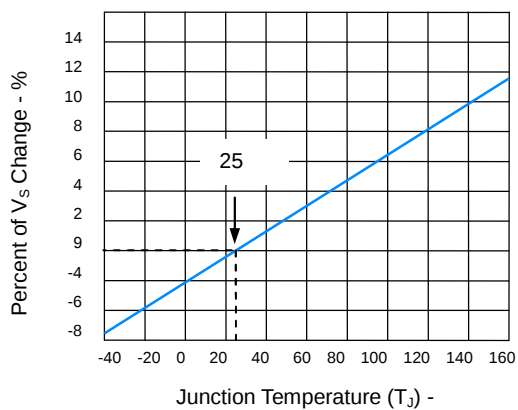


Figure4 - Normalized DC Holding Current Versus Case Temperature

