Features

DO-214AC (SMA)

- Fails short circuit when surged in excess of ratings
- Low voltage overshoot
- High repetitive surge current capability
- Low on - state voltage
- P0080TA~P3500TA are also available in SMA package

Main Applications

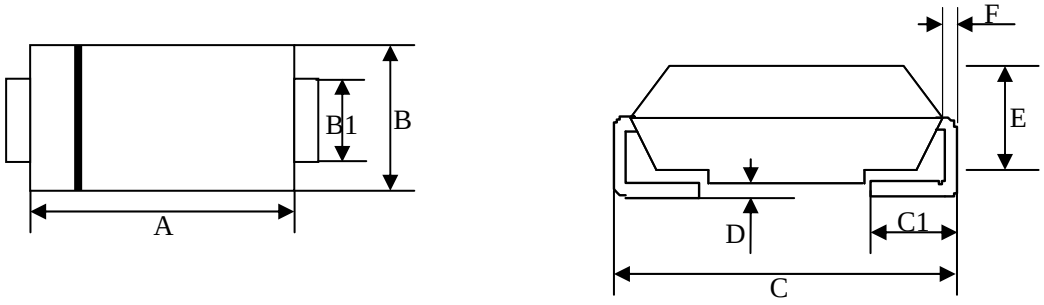
- Customer Premises Equipment (CPE)
- Modems, Line cards, DSL, ISDN, T - 1/E - 1
- Data lines and security systems
- Fax machines, Telephones etc.

Thermal Considerations

Type Number	Symbol	Value	Units
Operating Junction Storage Temperature Range	$T_{J,\ TG}$	-40 to + 150	°C
Storage Temperature Range	T_S	-40 to + 150	°C
Thermal Resistance: Junction to Ambient	$R\theta JA$	120	°C/W

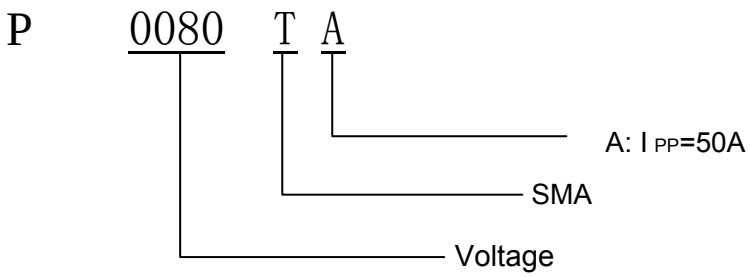
Package Dimensions

DO-214AC/SMA



Dim		A	B	B1	C	C1	D	E	F
Millimeters (mm)	Min	3.99	2.54	1.25	4.93	0.76	-	1.98	0.152
	Max	4.50	2.79	1.65	5.28	1.52	0.203	2.29	0.305
Inches (inch)	Min	0.157	0.100	0.049	0.194	0.030	-	0.078	0.006
	Max	0.177	0.110	0.065	0.208	0.060	0.008	0.090	0.012

Ordering Information



Electrical Characteristics *(T Ambient=25ºC unless noted otherwise)*

Part Number	V_{DRM} V min	V_S V max	I_H mA min	I_S mA max	I_T A max	V_T V max	C_O pF
P0080TA	6	25	50	800	2.2	4	50

Surge Ratings

Series	I_{PP} 2x10µS Amps	I_{PP} 8x20µS Amps	I_{PP} 10x160µS Amps	I_{PP} 10x560µS Amps	I_{PP} 10x1000µS Amps	I_{TSM} 50/60Hz Amps	di/dt Amps/µS
A	150	150	90	50	45	20	500

Note: 1. Peak pulse current rating (I_{PP}) is non‑repetitive and guaranteed for the life of the product.
2. I_{PP} ratings applicable over temperature range of ‑40℃ to +85℃
3. The device must initially be in thermal equilibrium with ‑40℃< TJ <+150℃
4. Current waveform and voltage waveform in µS.

Typical Characteristics Curves

Fig 1. V-I Characteristics

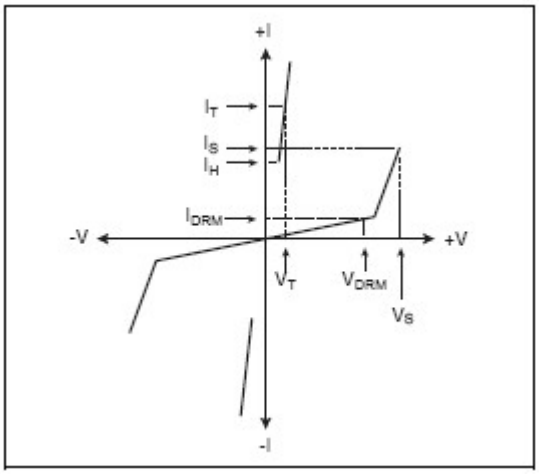


Fig 2. tr x td Pulse Wase-form

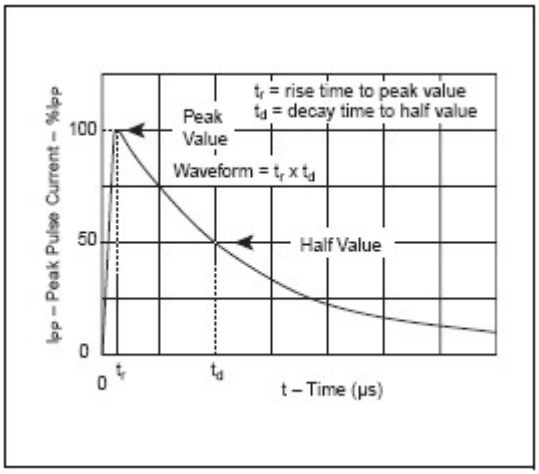


Fig 3. Normalized Vs Change versus Junction Temperature

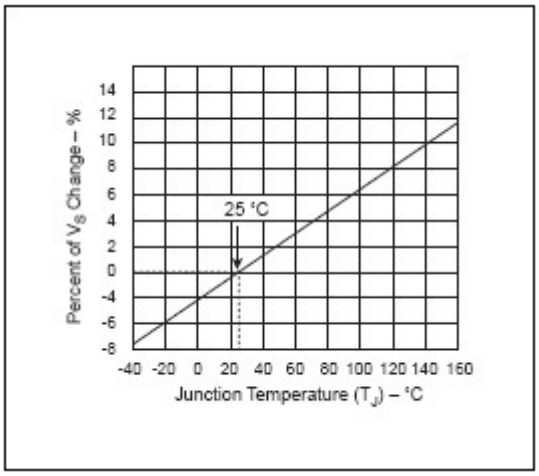


Fig 4. Normalized DC Holding Current Versus Case Temperature