

Features

- 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



**DO-214AC
(SMA)**

Main Applications

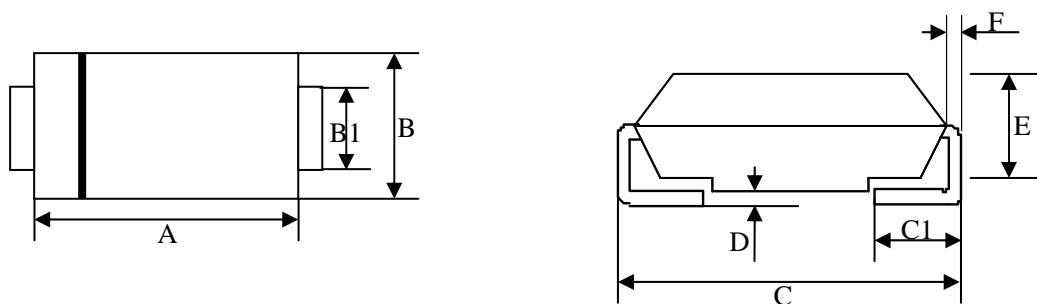
- Customer Premises Equipment (CPE)
- Modems, Line cards, DSL, ISDN, T - 1/E - 1
- Data lines and security systems
- Fax machines, Telephones etc.

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

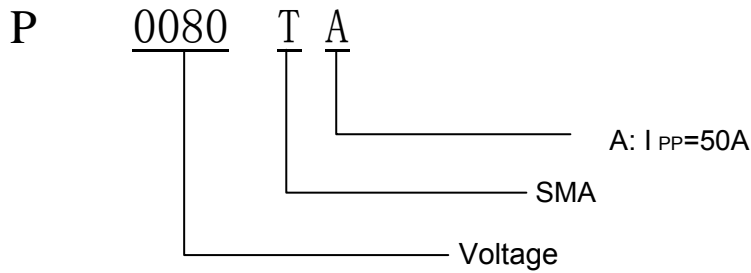
Package Dimensions

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}*=25°C unless noted otherwise)

Part Number	V _{DRM}	V _S	I _H	I _S	I _T	V _T	C _o
	V min	V max	mA min	mA max	A max	V max	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°C to +85°C

3. The device must initially be in thermal equilibrium with - 40°C < T_J < +150°C

4. Current waveform and voltage waveform in μS.

Typical Characteristics Curves

Fig 1. V-I Characteristics

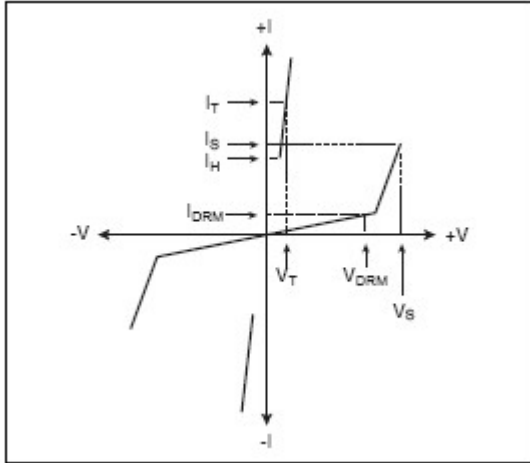


Fig 2. $t_r \times t_d$ Pulse Wave-form

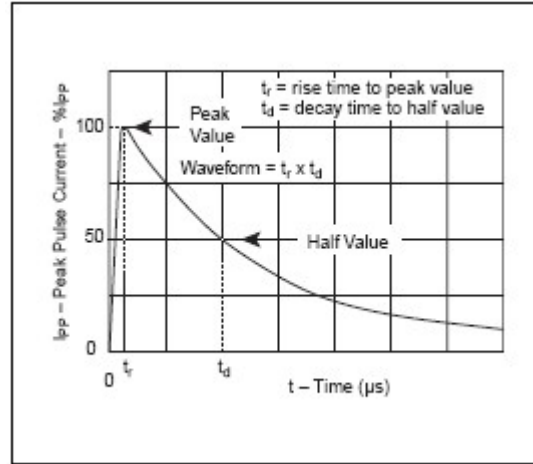


Fig 3. Normalized V_S Change versus Junction Temperature

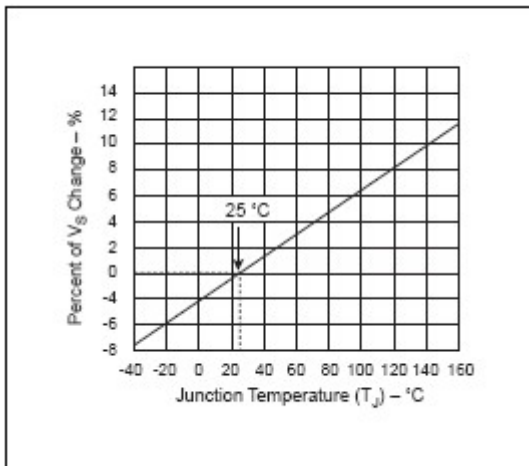
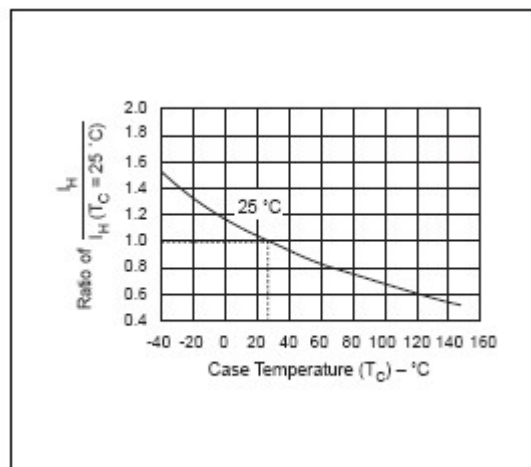


Fig 4. Normalized DC Holding Current Versus Case Temperature



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