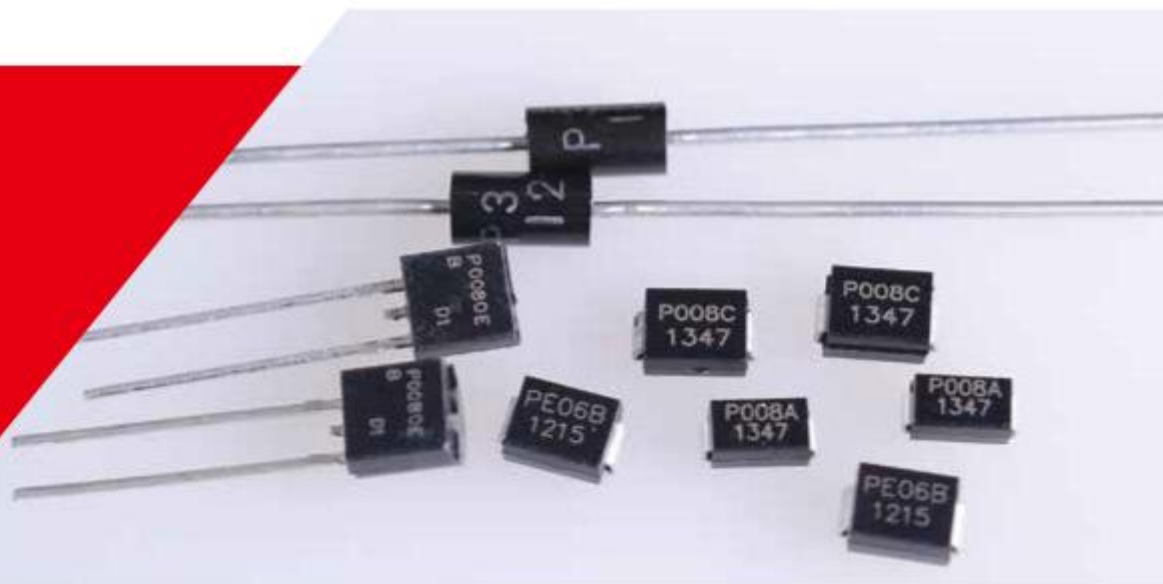




Transient Voltage Suppressors

**PxxxxTX Series
DO-214AC/SMA**

Thyristor Surge Suppressors -PxxxxTX Series

Description

DO-214AC/SMA Series are low capacitance devices designed to protect broadband equipment such as VOIP, DSL modems and DSLAMs from damaging overvoltage transients.

The series provides a surface mount solution that enables equipment to comply with global regulatory standards while limiting the impact to broadband signals.

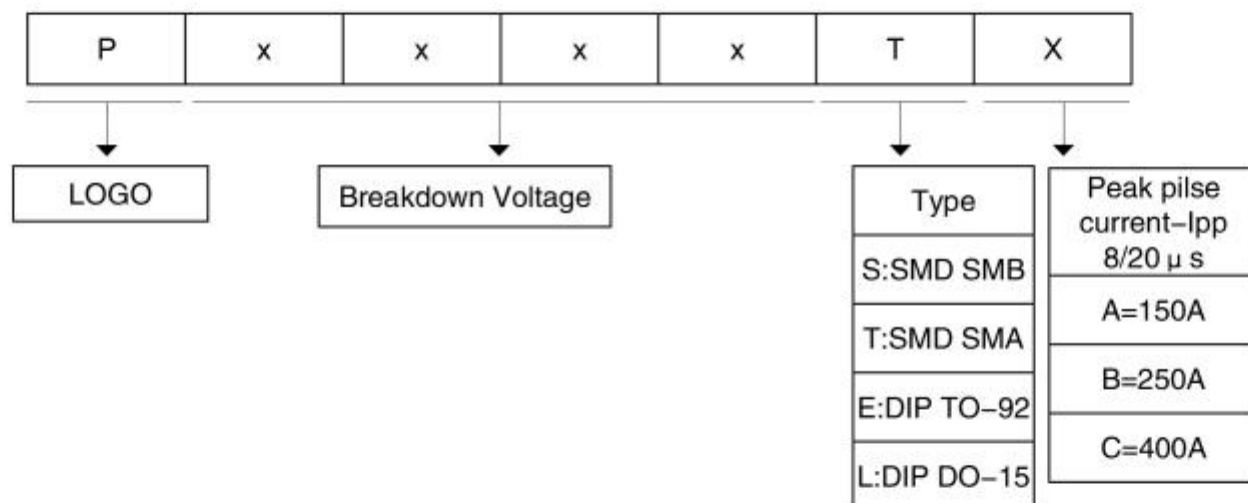


Features

Compared to surge suppression using other technologies, P Series devices offer absolute surge protection regardless of the surge current available and the rate of applied voltage (dv/dt). P Series devices:

- Cannot be damaged by voltage
- Eliminate hysteresis and heat dissipation typically found with clamping devices
- Eliminate voltage overshoot caused by fast-rising transients
- Are non-degenerative
- Will not fatigue
- Have low capacitance, making them ideal for high-speed transmission equipment

Part Number Code



Electrical Characteristics

Type Number	VDRM	VBO	IH	IS	IT	VT	CJ
	V	V	MA	MA	A	V	PF
P0080TA	6	25	50	800	2.2	4	50
P0300TA	25	40	50	800	2.2	4	70
P0640TA	58	77	150	800	2.2	4	50
P0720TA	65	88	150	800	2.2	4	50
P0900TA	75	98	150	800	2.2	4	45
P1100TA	90	130	150	800	2.2	4	45
P1300TA	120	160	150	800	2.2	4	45
P1500TA	140	180	150	800	2.2	4	40
P1800TA	170	220	150	800	2.2	4	40
P2300TA	190	260	150	800	2.2	4	35
P2600TA	220	300	150	800	2.2	4	35
P3100TA	275	350	150	800	2.2	4	30
P3500TA	320	400	150	800	2.2	4	30

Notes:

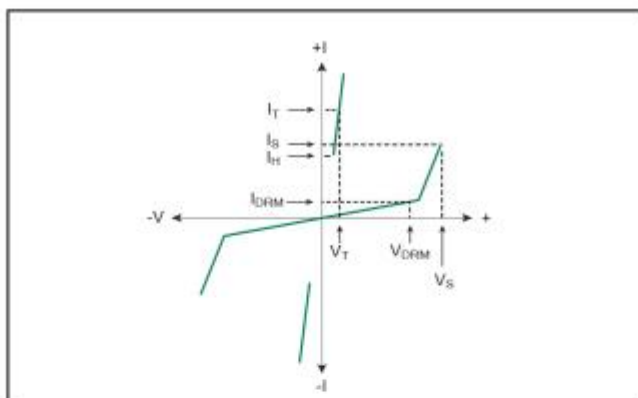
Is: Switching Current – maximum current required to switch to on state
 IDRM: Leakage Current – maximum peak off-state current measured at VDRM
 IH: Holding Current – minimum current required to maintain on state
 IPP: Peak Pulse Current – maximum rated peak impulse current
 IT: On-state Current – maximum rated continuous on-state current
 VDRM: Peak Off-state Voltage – maximum voltage that can be applied while maintaining off state
 VT: On-state Voltage – maximum voltage measured at rated on-state current

SERIES	Peak Pulse Current-Ipp(A)				
	2/10μs	8/20μs	10/160μs	10/560μs	10/1000μs
A	200	150	100	60	50

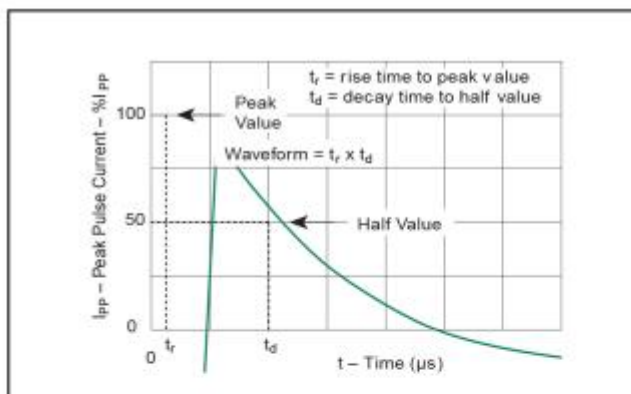
Thermal Considerations

Package SMA	Symbol	Parameter	Value	Unit
	TJ	Operating Junction Temperature	-40 to +150	°C
	TS	Storage Temperature Range	-40 to +150	°C
	RθJA	Junction to Ambient on printed circuit	90	°C/W

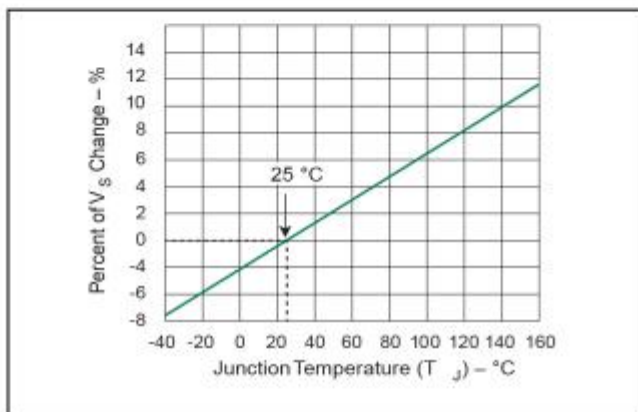
V-I Characteristics



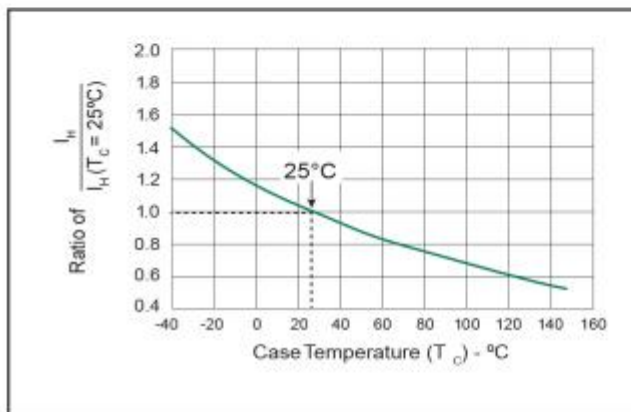
$t_r \times t_d$ Pulse Waveform



Normalized V_S Change vs. Junction Temperature



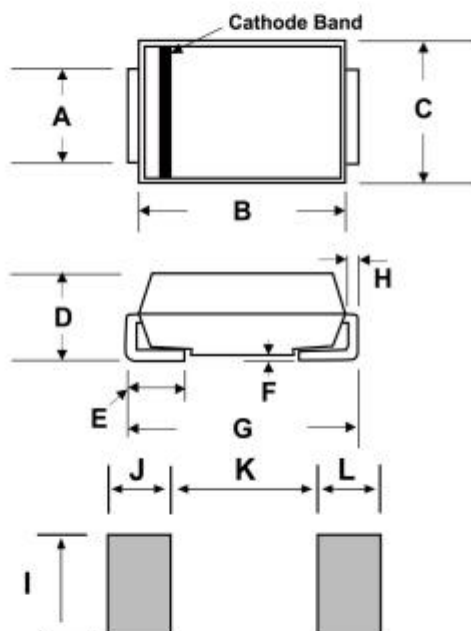
Normalized DC Holding Current vs. Case Temperature



Thyristor Surge Suppressors -PxxxxTX Series

Dimensions DO-214AC

Unit:mm

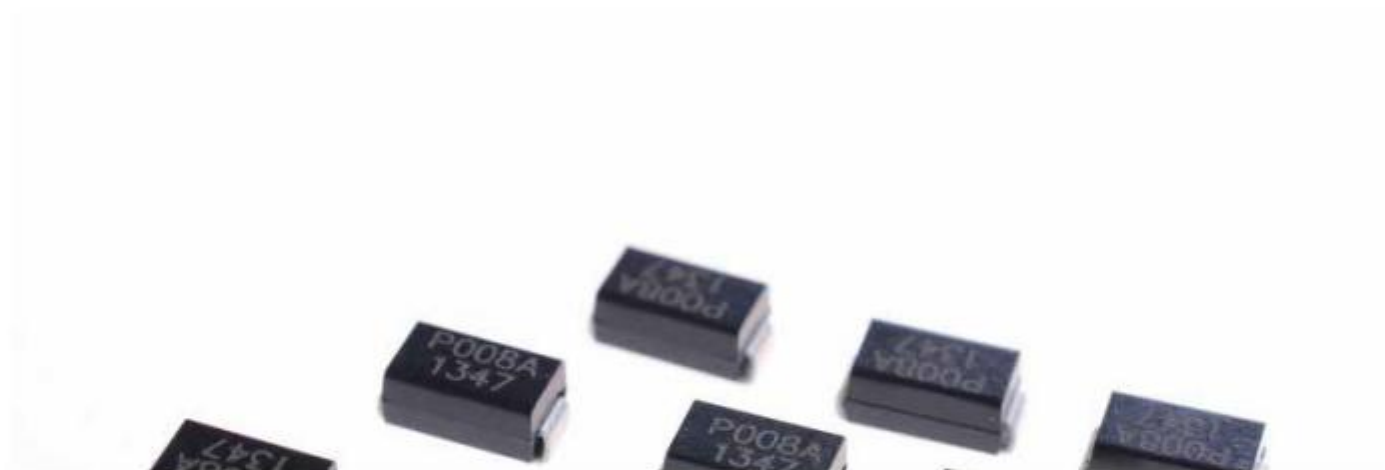


DIM	Inches		Millimeters	
	Min	Max	Min	Max
A	0.049	0.065	1.250	1.650
B	0.157	0.177	3.990	4.500
C	0.100	0.110	2.540	2.790
D	0.078	0.090	1.980	2.290
E	0.030	0.060	0.780	1.520
F	-	0.008	-	0.203
G	0.194	0.208	4.930	5.280
H	0.006	0.012	0.152	0.305
I	0.070	-	1.800	-
J	0.082	-	2.100	-
K	-	0.090	-	2.300
L	0.082	-	2.100	-

Packaging

Part Number	Component Package	Quantity	Packaging Option	Packaging Specification
PxxxxTX	DO-214AC	2000	Tape&Reel - 7' tape	EIA RS-481

Tape and Reel Specification



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