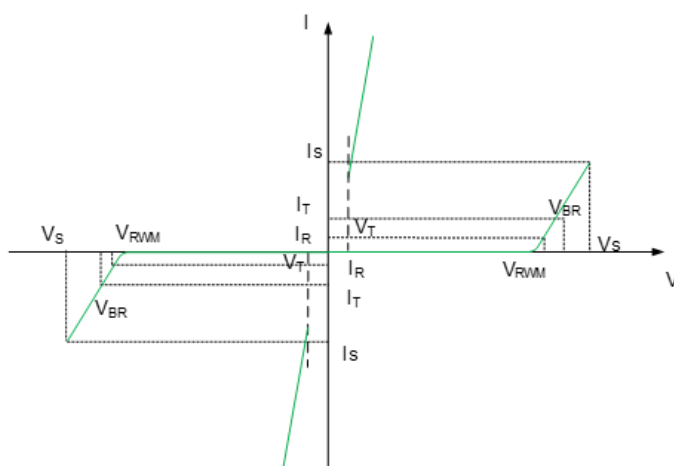


TSS components are solid state crowbar devices designed to protect telecom equipment during transient conditions , as follows:

- ◆ 1.Excellent transient voltage suppression
- ◆ 2. Wide range of voltage ratings
- ◆ 3. Symmetrical V-1 characteristics (Non Polarity)
- ◆ 4. Fast response
- ◆ 5. Steady operation for repeating surge
- ◆ 6.Low temperature coefficient
- ◆ 7.High reliability

CHARACTERISTICS



Parameter	Definition
C_o	Off-state Capacitance — typical capacitance measured in off state
di/dt	Rate of Rise of Current — maximum rated value of the acceptable rate of rise in current over time
I_s	Switching Current — maximum current required to switch to on state
I_{DRM}	Leakage Current — maximum peak off-state current measured at V_{DRM}
I_H	Holding Current — minimum current required to maintain on state
I_{PP}	Peak Pulse Current — maximum rated peak impulse current
I_T	On-state Current — maximum rated continuous on-state current
V_S	Switching Voltage — maximum voltage prior to switching to on state
V_{DRM}	Peak Off-state Voltage — maximum voltage that can be applied while maintaining off state
V_T	On-state Voltage — maximum voltage measured at rated on-state current

Electrical Characteristics

Part Number	V_{DRM}	V_S	$V_T@I_T$	$I_{DRM}@V_{DRM}$	I_S	I_T	I_H	C_O
	Volts	Volts	Volts	μ Amps	μ Amps	Amps	mAmps	pF
P0080TA	6	25	4	5	800	2.2	50	60
P0300TA	25	40	4	5	800	2.2	50	65
P0640TA	58	77	4	5	800	2.2	150	45
P0720TA	65	88	4	5	800	2.2	150	45
P1100TA	90	130	4	5	800	2.2	150	45
P2300TA	190	260	4	5	800	2.2	150	45
P2600TA	220	300	4	5	800	2.2	150	45
P3100TA	275	350	4	5	800	2.2	150	40
P3500TA	320	400	4	5	800	2.2	150	40

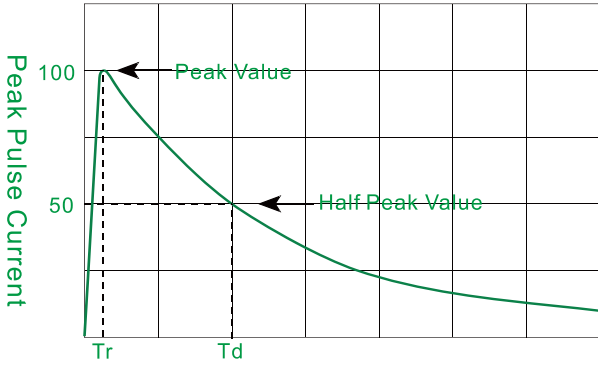
Notes:

- ◆ All measurements are made at an ambient temperature of 25°C. IPP applies to -40°C through +85°C temperature range.
- ◆ Off-state capacitance (C_O) is measured at 1 MHz with a 2 V bias and is typical value.

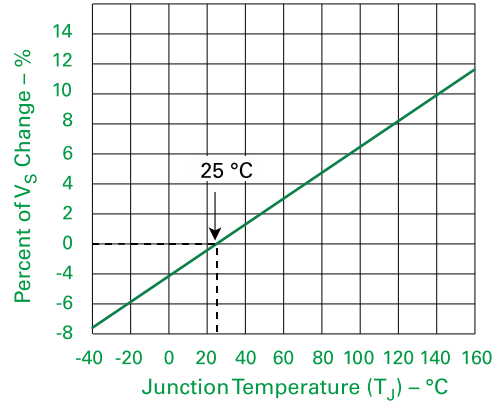
Surge Ratings

Series	2/10 μ s	8/20 μ s	10/160 μ s	10/560 μ s	10/1000 μ s	60HZ	di/dt
A	150Amps	150Amps	90Amps	50Amps	45Amps	10Amps	500 Amps/ μ s
B	250Amps	250Amps	150Amps	100Amps	80Amps	30Amps	
C	400Amps	400Amps	200Amps	150Amps	100Amps	50Amps	

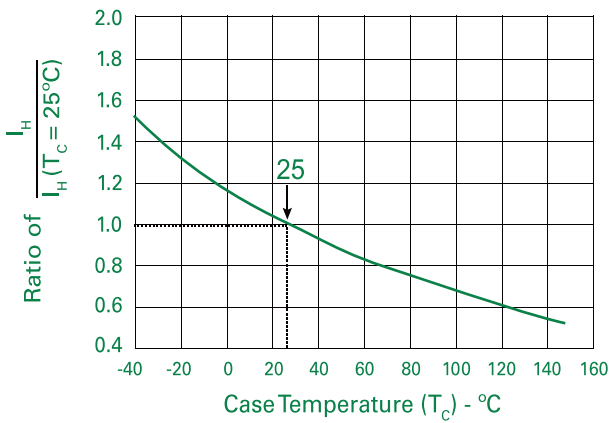
$t_r \times t_d$ Pulse Waveform



Normalized V_s Change vs. Junction Temperature

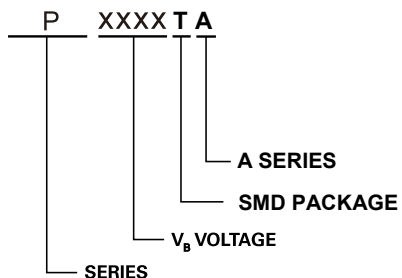


Normalized DC Holding Current vs. Case Temperature

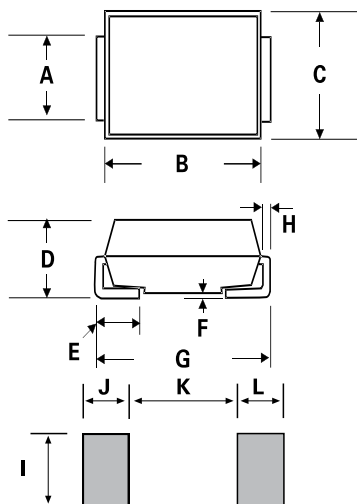


Reflow Parameter	Lead-Free Requirement
Preheat (depending on flux only)	
Temperature Min	150°C
Temperature Max	200°C
Time (Min to Max)	60-180 seconds
Solder Pot Temperature	245-265°C (Max)
Solder Dwell Time	2-3.5 seconds
Cooling	-6°C/second (Max)

Part Numbering



Package DO214AC/SMA



Dimensions	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	-

Packing Options

Package Type	Description	Quantity
SMA	PXXXXTA	5000pcs