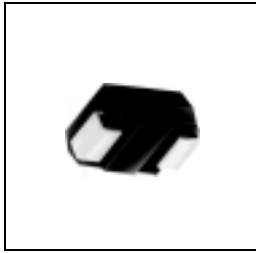


DO-214



The DO-214 TransX products are surface mount transient voltage protectors. TransX products offer bi-directional transient voltage protection, fast clamping speeds, high off-state impedance and low on-state voltage. The component is compliant with UL 497B (recognised file no. E176500) and the encapsulating material meets the requirements of UL94V0.

Electrical Parameters

Part Number	V _{DRM} Volts	V _S Volts	V _T Volts	I _{DRM} μAmps	I _S mAmps	I _T Amps	I _H mAmps	C _O (pF)	
								A,B	C
STS008_1A	6	20*	5	5	800	1	150	100	200
STS030_1A	25	40	5	5	800	1	150	100	200
STS064_1A	58	77	5	5	800	1	150	60	120
STS072_1A	65	88	5	5	800	1	150	60	120
STS080_1A	75	98	5	5	800	1	150	60	120
STS110_1A	90	130	5	5	800	1	150	60	120
STS130_1A	120	160	5	5	800	1	150	40	80
STS150_1A	140	180	5	5	800	1	150	40	80
STS180_1A	160	220	5	5	800	1	150	40	80
STS230_1A	190	260	5	5	800	1	150	30	60
STS260_1A	220	300	5	5	800	1	150	30	60
STS310_1A	275	350	5	5	800	1	150	30	60
STS350_1A	320	400	5	5	800	1	150	30	60

*C rated part = 25 V

Notes:

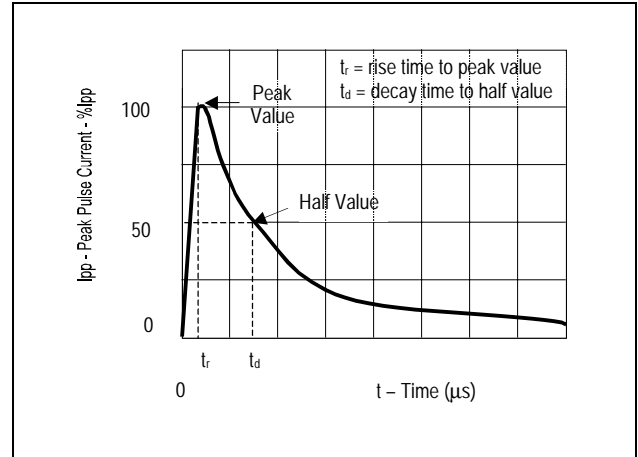
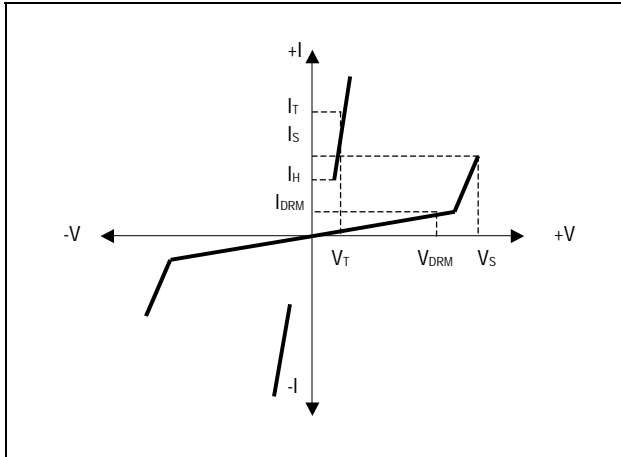
- Blank in part number refers to 10x1000 μsec I_{PP} rating (A = 50 A; B = 90 A; C = 100 A). Refer to Surge Ratings below.
- All measurements are made at an ambient temperature of 25°C
- All parts are bi-directional. All electrical parameters and surge ratings apply to both forward and reverse polarities
- V_{DRM} is measured at I_{DRM}
- V_S is measured at 60 Hz
- Special voltage (V_S, V_{DRM}) and holding current (I_H) requirements are available upon request
- Off-state capacitance is measured at 1 MHz with a 2 volt bias and is a typical value

Surge Ratings

Series	I _{PP} 10x160 μs Amps	I _{PP} 10x560 μs Amps	I _{PP} 2x10 μs Amps	I _{PP} 10x1000 μs Amps	I _{PP} 8x20 μs Amps	I _{TSM} 60 Hz Amps	di/dt Amps/μs
A	100	50	-	50	100	20	500
B	150	100	-	90	150	30	500
C	200	125	500	100	250	60	500

V-I Characteristics

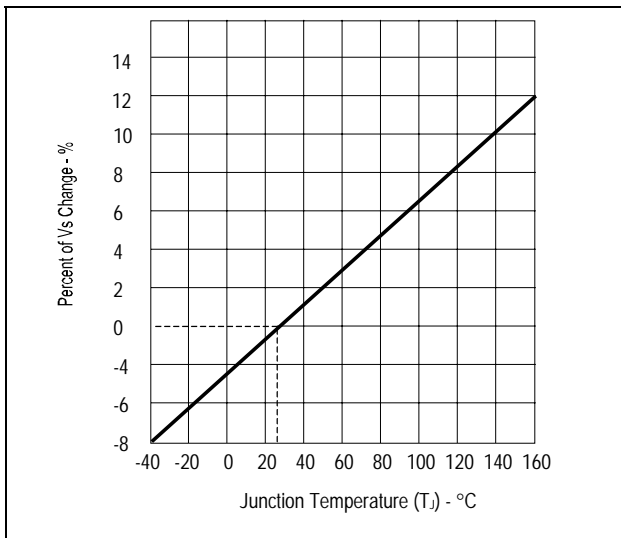
t_r x t_d Pulse Wave-form (double exponential)



Thermal Parameters

Series	T_j Junction Temp Range (°C)	T_s Storage Temp Range (°C)	T_c Max. Case Temp (°C)	$R_{\theta jc}$ Thermal Res. junction - case (°C/W)	$R_{\theta ja}$ Thermal Res. junction - ambient (°C/W)
A	-40 to +125	-65 to +150	+85	+28	+90
B	-40 to +125	-65 to +150	+85	+28	+90
C	-40 to +125	-65 to +150	+85	+26	+85

Normalised V_S Change vs. Junction Temperature



Normalised DC Holding Current vs. Case Temperature

