

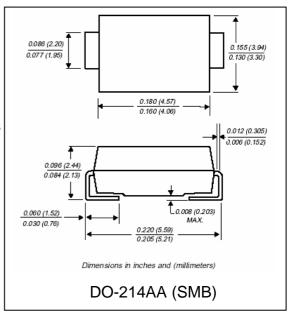
SURGE ROTECTIVE DEVICE, T2300SC

Features

- Bidirectional crowbar protection
- High repetitive surge capability
- Low capacitance
- Low leakage current
- Fast response time
- Surface-mount outline or Axial lead packages

Main Applications

- Customer Premises Equipment (CPE) modems and caller ID adjunct boxes
- T-1/E-1, ISDN, xDSL and VoIP
- Data lines and security systems
- Primary protection including main distribution



In Compliances with the Following Standards

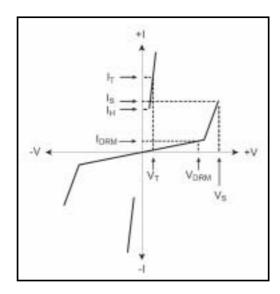
	Maximum Voltag e	Voltage Waveform	Maximum Current	Current Waveform	SPD series
Standard	Volts	μs	Amps	μs	
TIA/EIA-IS-968(FCC Part 68)					
Surge A Metallic	800	10×560	100	10×560	B or C
Surge A Longitudinal	1500	10×160	200	10×160	С
Surge B Metallic	1000	9×720	25	5×320	A, B, or C
Surge B Longitudinal	1500	9×720	37.5	5×320	A, B, or C
GR-1089					
Test 1	600	10×1000	100	10×1000	С
Test 2	1000	10×360	100	10×360	B or C
Test 3	1000	10×1000	100	10×1000	С
Test 4	2500	2×10	500	2×10	С
Test 5	1000	10×360	25	10×360	A, B, or C
IEC 61000-4-5					
	2000	10×700	50	5×310	A, B, or C
	4000	10×700	100	8×20	С
VDE 0433	2000	10×700	50	5×310	A, B, or C
ITU K.20					
Basic single port	1000/4000	10×700	25/100	5×310	A, B or C/B or C
Enchanced single	1500/4000	10×700	37.5/100	5×310	A, B or C/B or C
Basic multiple ports	1500/4000	10×700	37.5/100	5×310	A, B or C/B or C
Enchanced multiple	1500/6000	10×700	37.5/100	5×310	A, B or C/ C



Electrical Characteristics

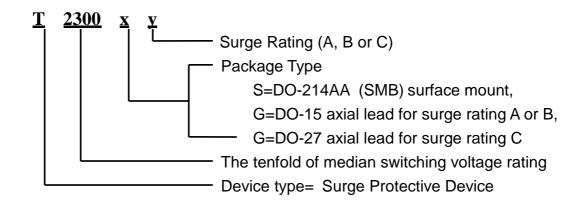
Parameter	Symbol	Definitions
Repetitive Peak Off-state Voltage	V_{DRM}	Rated maximum (peak) continuous voltage that can be applied in the off-state conditions.
Repetitive Peak Off-state Current	I _{DRM}	The maximum (peak) value of off-state current that results from the application of the V _{DRM} .
Switching Voltage	Vs	The instantaneous voltage across the device at the final point in the breakdown region prior to switching into the on-state measured at 100V/ms.
Switching Current	I _S	The instantaneous current flowing at the V _S .
On-state Voltage	V _T	The voltage across the device in the on-state condition at I_{T} .
On-state Current	I _T	The maximum rated continuous current through the device in the on-state condition.
Holding Current	I _H	The minimum current required to maintain the device in the on-state.
Off-state Capacitance	Co	Typical capacitance in the off-state measured at 1MHz with a 2V bias.
Peak Pulse Current	I _{PP}	Rated maximum value of peak impulse pulse current applied for 10 pulses with specified current waveform without causing failure.

Note: Principal reference, JEDEC standard JESD66, Nov. 1999.





Part Number Information



Electrical Parameters(25°C unless otherwise noted)

Part Number	I _{DRM} @V _{DRM} max.		V _S max.	I _S max.	V _T @ I _{T=} 1A.		I _H min.	C _O typ.	Mark
	μΑ	٧	V	mA	V	Α	mΑ	рF	
T2300SC	5	190	260	800	3.5	1	150	30	T23C

Note 1: For individual A, B or C surge ratings, see table below.

Note 2: Off-state capacitance (C_0) is a typical value for "A" surge rating product. Capacitance for "B" surge rating product is approximately 1.5x the listed value. Capacitance for "C" surge rating product is approximately 3x the listed value.

Note 3: Special requirements are available upon request.

Surge Ratings

	I _{PP}	I _{PP}	I _{PP}	I_{PP}	I _{PP}
Series	2×10µs	8×20µs	10×160µs	10×560µs	10×1000μs
	Amps	Amps	Amps	Amps	Amps
Α	150	150	90	50	45
В	250	250	150	100	80
С	500	400	200	150	100