



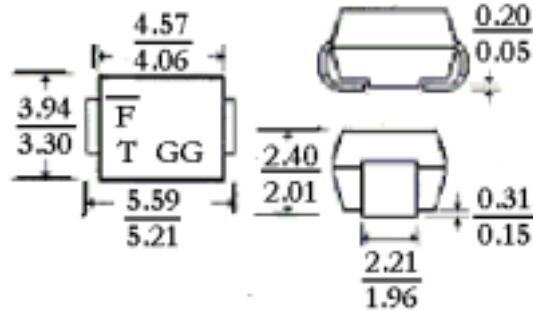
THYRISTOR SURGE PROTECTOR
SMB TYPE SURFACE MOUNT

DESCRIPTION



DO-214AA
(SMB)

MECHANICAL DIMENSION



Dimension in MM

FEATURES

UL94V-0 Flammability Classification

ESD Protection >40k Voltage

High Surge Current Capability

Peak Off-State voltage from 58~300V

Meet IEC100-4-4 & -5 Industry requirement

Low Capacitance for T1/E1 Trunk and Line Card Application

Provides Protection in Accordance with FCC part 68, UL1459, Bellcore 1089, ITU-TK. 20& K.21

Part No	CODE	Repetitive Peak Off Stage Vdrm (V)	Switching Vol@100 V/uS Vs (V)	Minimum Holding Current dI/dt=1A/ms Ipp (mA)	Switching Current Is (mA)	Urge Rating Ipp@ 10/1000us (A)	On-stage Current IT (A)	Typical Capacitance @50V .@1MHz (pF)
TSP110A	GF	90	130	150	800	50	1	60
TSP130A	GG	120	160	150	800	50	1	40
TSP150A	GH	140	180	150	800	50	1	40
TSP180A	GI	160	220	150	800	50	1	40
TSP230A	GJ	190	260	150	800	50	1	30
TSP260A	GK	220	300	150	800	50	1	30
TSP310A	GL	275	350	150	800	50	1	30
TSP350A	GM	300	400	150	800	50	1	30
TSP110B	GS	90	130	150	800	75	1	100
TSP130B	GT	120	160	150	800	75	1	70
TSP150B	GU	140	180	150	800	75	1	70
TSP180B	GV	160	220	150	800	75	1	70
TSP230B	GW	190	260	150	800	75	1	50
TSP260B	GX	220	300	150	800	75	1	50
TSP310B	GY	275	350	150	800	75	1	40
TSP350B	GZ	300	400	150	800	75	1	40

● MAX OFF-STATE CURRENT @ VDRM: 5uA; MAX ON-STATE VOL @ IT:5V



Part No	CODE	Repetitive Peak Off Stage Vdrm (V)	Switching Vol@100 V/uS Vs (V)	Minimum Holding Current dI/dt=1A/ms Ipp (mA)	Switching Current Is (mA)	Urge Rating Ipp@ 10/1000us (A)	On-stage Current IT (A)	Typical Capacitance @50V .@1MHz (pF)
TSP110C	HF	90	130	150	800	100	1	100
TSP130C	HG	120	160	150	800	100	1	70
TSP150C	HH	140	180	150	800	100	1	70
TSP180C	HI	160	220	150	800	100	1	70
TSP230C	HJ	190	260	150	800	100	1	50
TSP260C	HK	220	300	150	800	100	1	50
TSP310C	HL	275	350	150	800	100	1	40
TSP350C	HM	300	400	150	800	100	1	40

● MAX OFF-STATE CURRENT @ VDRM: 5uA; MAX ON-STATE VOL @ VT:5V

Fig.1 Pulse Wave Form Example

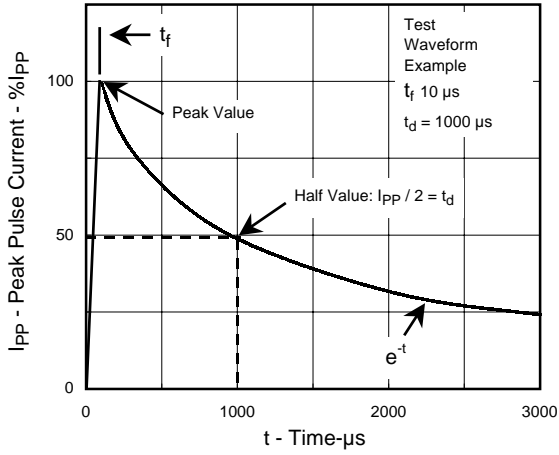


Fig.2 Typical Peak Off-State Current Vs Junction Temperature

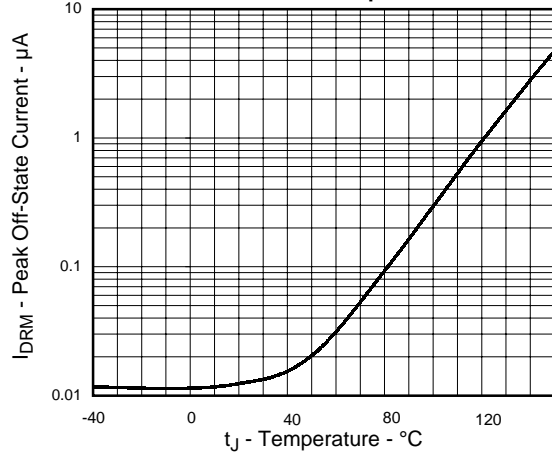


Fig.3 Typical On-State Current Vs On-State Voltage

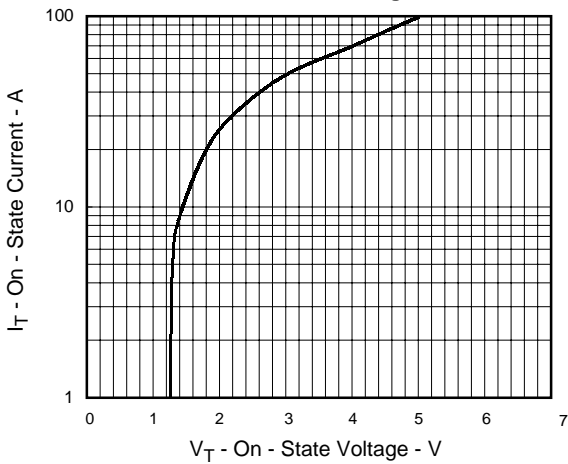


Fig.4 Typical Holding Current Vs Junction Temperature

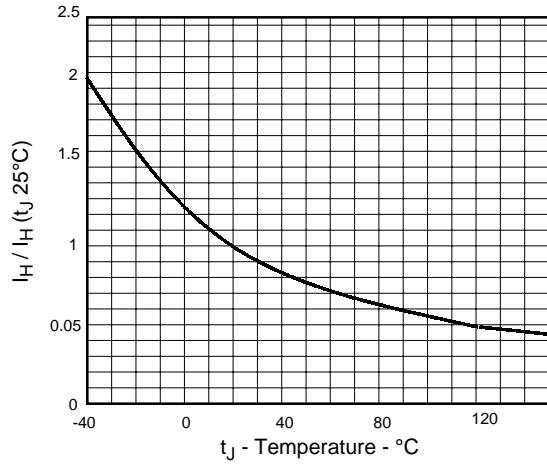


Fig.5 Typical normalized Vs Vs Junction Temperature

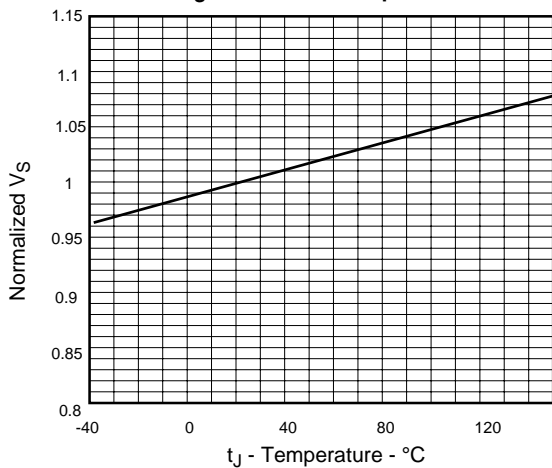


Fig.6 On-State Current Vs Surge Current Duration

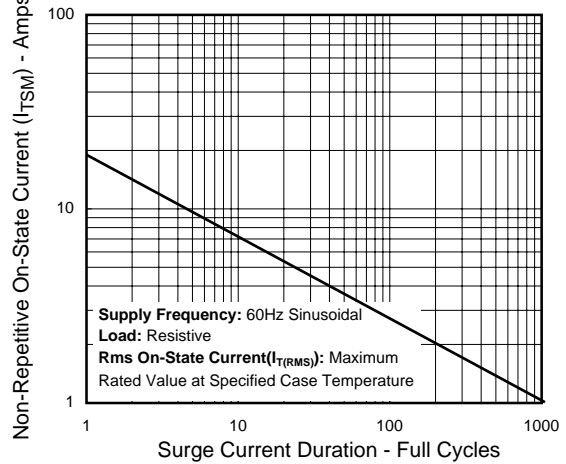


Fig.7 V - I Characteristics Curve

