

SOLID STATE TELECOMMUNICATION PROTECTION ARRESTOR

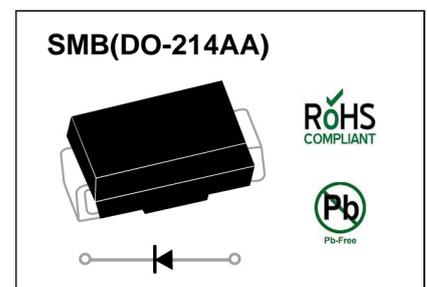
Breakdown Voltage - 62 to 270 Volts Holding Current - 150 Milliampere

Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Bidirectional crowbar protection
- High forward surge current capability
- High temperature soldering guaranteed: 250°C/10 seconds on terminals

Mechanical Data

- Case:DO-214AA molded plastic body
- Terminals:Solder plated, solderable per MIL-STD-750,Method 2026
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Weight: 0.003 ounce, 0.093 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

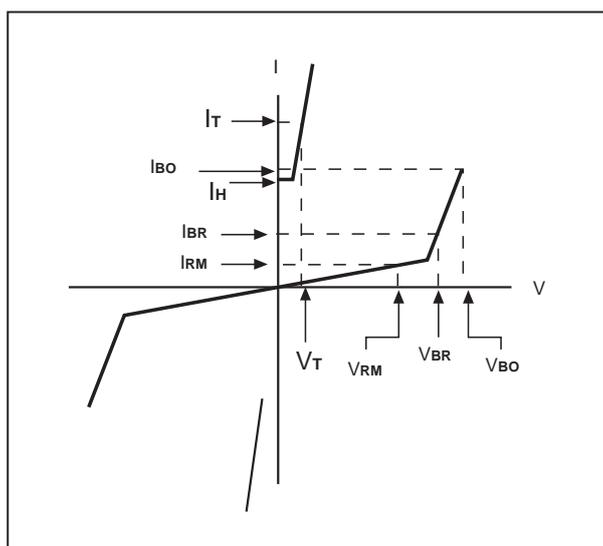
	SYMBOLS	STPA 62	STPA 68	STPA 100	STPA 120	STPA 130	STPA 180	STPA 200	STPA 220	STPA 240	STPA 270	UNITS	
Maximum breakdown voltage (I _R =1mA)	V _{BR}	62	68	100	120	130	180	200	220	240	270	VOLTS	
Maximum breakover voltage (I _{BO} =800mA)	V _{BO}	82	90	133	160	173	240	267	293	320	360	VOLTS	
Maximum off-state voltage	V _{RM}	56	61	90	108	117	162	180	198	216	243	VOLTS	
Maximum on-state voltage (I _T =1A)	V _T	2	4									VOLTS	
Maximum off-state current @ V _{RM}	I _{RM}							2					μA
Maximum holding current	I _H						150						mA
Maximum peak pulse current (10/1000μs)	I _{PP}						50						A
Maximum surge current (50 Hz)	I _{TSM}						25						A
Minimum critical off-state voltage rise rate	dV/dt						2						KV/μS
Typical junction capacitance (Note 1)	C _J	150								100			pF
Junction temperature	T _J						-40 to +150					°C	
Storage temperature	T _{STG}						-40 to +150					°C	
Junction to leads on infinite heatsink	R _{θJL}						60					°C/W	
Junction to ambient on printed circuit L(lead)=10mmA	R _{θJA}						100					°C/W	

Note 1:F=1MHz V_R=1V

Ratings and characteristic curves STPA62 thru STPA270

NOTE1:MEANING OF PARAMETERS

Symbol	Parameter
V_{RM}	Stand-off voltage
V_{BR}	Breakdown voltage
V_{BO}	Breakover voltage
I_H	Holding current
V_T	On-state voltage
I_{BO}	Breakover current
I_{PP}	Peak pulse current



NOTE2:ALL STPA SERIES MEET THE SURGE REQUIREMENTS OF THE FOLLOWING STANDARDS:

CCITTK 17-K20	10/700 μ s	1.5KV
	5/310 μ s	38A
VDE0433	10/700 μ s	2KV
	5/200 μ s	50A
CNET	0.5/700 μ s	1.5KV
	0.2/310 μ s	38A

Ratings and characteristic curves STPA62 thru STPA270

FIG.1-PULSE WAVE FORM(10/1000 μ s)

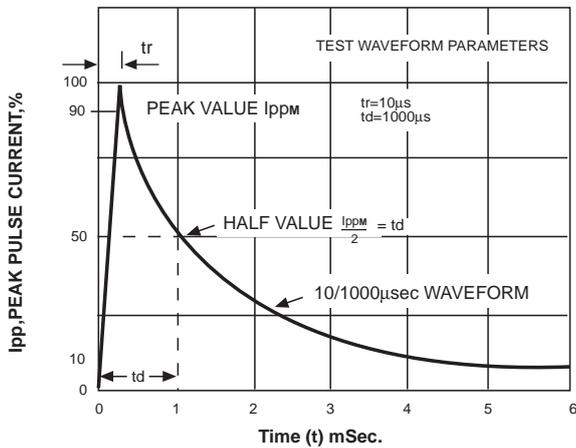


FIG. 2-NORMALIZED DC HOLDING CURRENT VS CASE TEMPERATURE

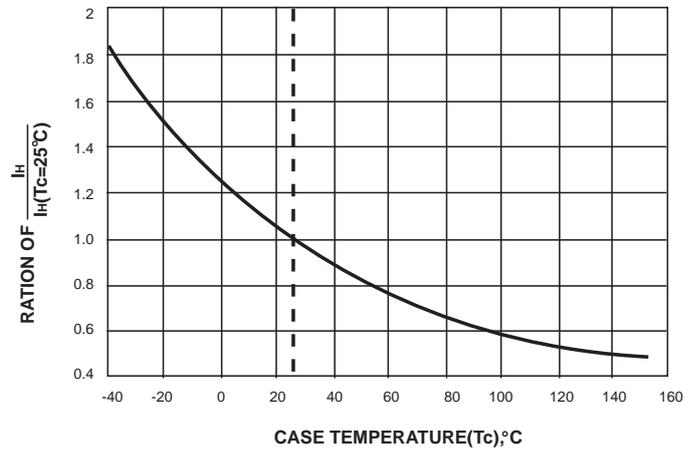


FIG. 3-TYPICAL TRANSIENT THERMAL IMPEDANCE

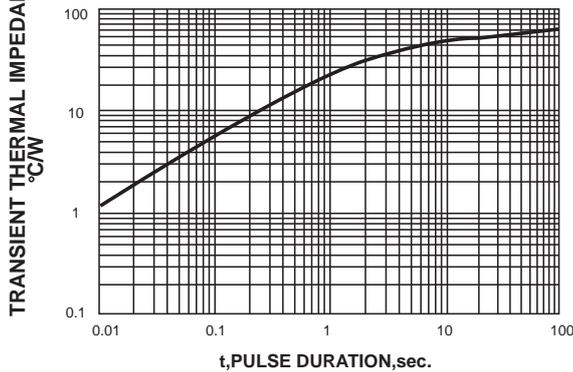


FIG. 4-NORMALIZED V_{Bo} CHANGE VS JUNCTION TEMPERATURE

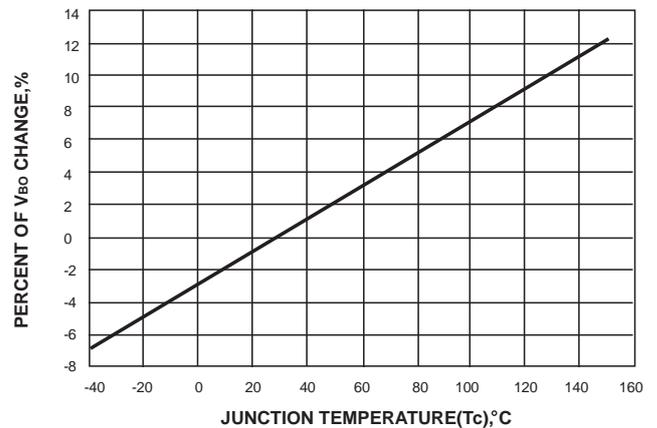


FIG. 5-NON REPETITIVE SURGE PEAK ON-STATE CURRENT VERSUS OVERLOAD DURATION (T_j INITIAL= $25^\circ C$)

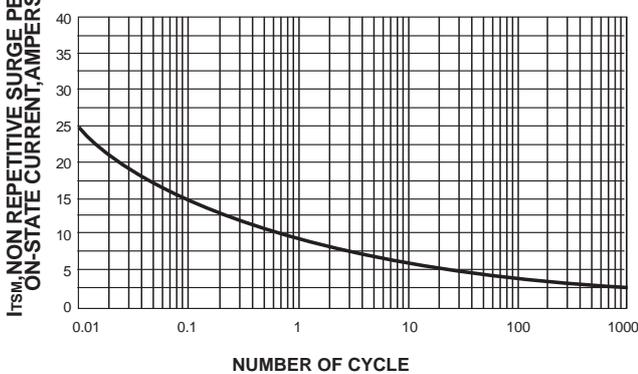
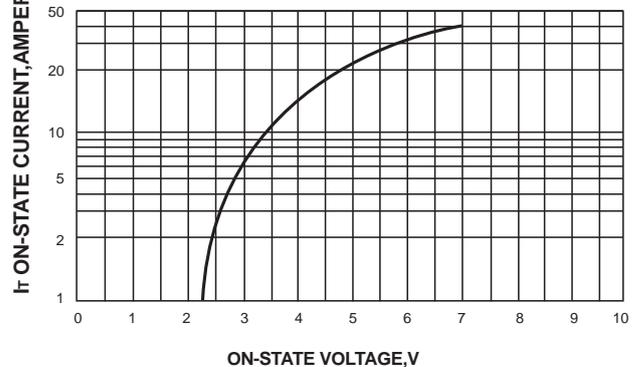


FIG. 6- ON-STATE CURRENT VERSUS ON-STATE VOLTAGE(TYPICAL VALUES).



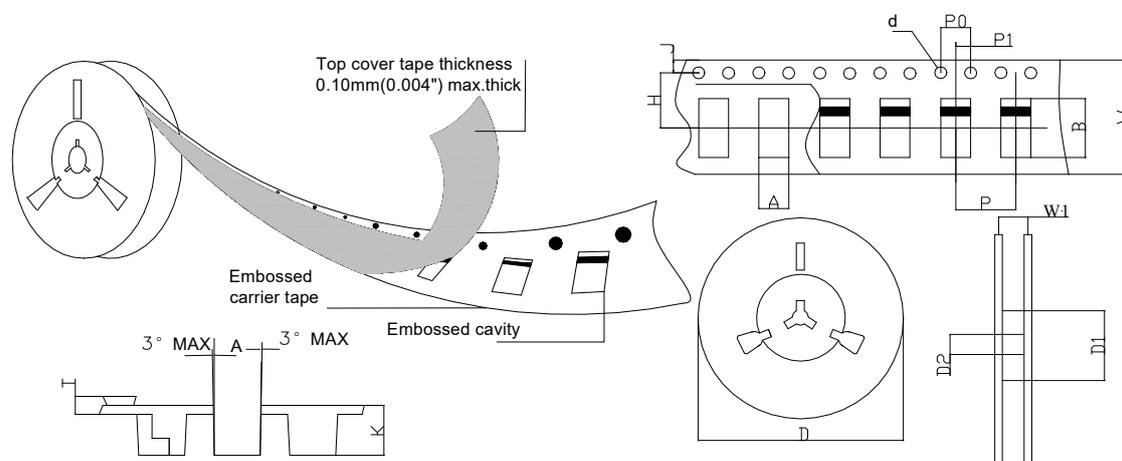
Marking and packing illustration

1、Marking



SYMBOL	Explanation
A	Product Name

2、Packaging



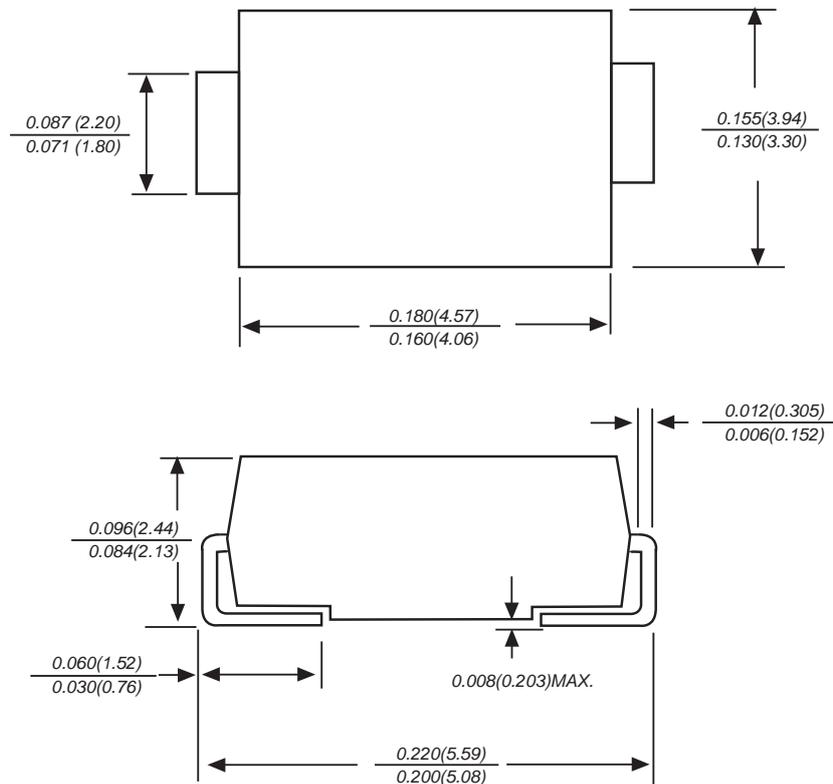
SPECIFICATIONS mm(inch)		PACKAGE	SPECIFICATIONS mm(inch)		PACKAGE
ITEM	SYM BOL	SMB (DO-214AA)	ITEM	SYM BOL	SMB (DO-214AA)
Carrier width	A	3.81(0.150)Max	Carrier depth	K	2.45(0.965)Typ
Carrier length	B	5.41(0.213)Max	Punch hole pitch	P	8.00(0.315)Typ
Sprocket hole	d	ø1.55(0.061)Typ	Sprocket hole pitch	P0	4.00(0.157)Typ
Reel outer diameter	D	330.0(13.0)Typ	Embossment center	P1	2.00(0.079)Typ
Reel inner diameter	D1	50.0(1.969)Min	Overall tape thickness	T	0.30(0.012)Typ
Feed hole diameter	D2	13.0(0.512)Typ	Tape width	W	12.0(0.472)Typ
Sprocket hole position	J	1.75(0.069)Typ	Reel width	W1	12.4(0.488)Min
Punch hole position	H	5.55(0.219)Typ			

3、Ordering Information

Part Number	Compliance	Case	Packaging
SSXX	Standard	SMB	3000/Tape & Reel

Dimension

SMB(DO-214AA)



Dimensions in inches and (millimeters)

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