

Axial Auto Surge Suppressor

Features

- Glass passivated junction
- Plastic package P-600
- Bi-directional
- Excellent clamping capability
- Fast response time
- High temperature soldering guaranteed: 265°C/10 seconds/.375", (9.5mm) lead length, 5lbs., (2.3kg) tension
- Continued current transient suppressor
- AEC-Q101

IEC Compatibility

- ISO 16750-2 Test A 24V System (174V 4Ω 350ms 10c)

Applications

- Auto powers system
- Can-bus
- ABS powers
- Car audio and video
- Automotive instrument
- Bluetooth
- Car GPS

Maximum Ratings($T_A=25^{\circ}\text{C}$ unless otherwise noted)

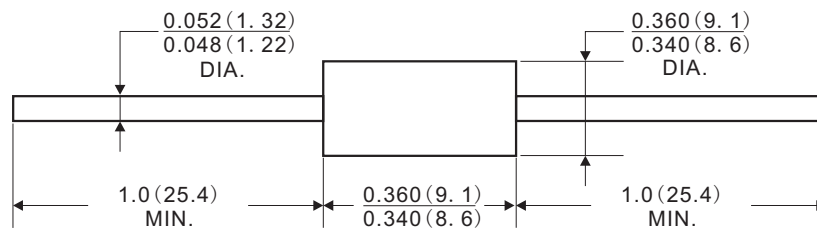
RATING	SYMBOL	VALUE	UNITS
Peak power dissipation with a 10/1000 μs waveform(Note 1)	P _{PP}	12000	Watts
Operating junction and storage temperature range	T _J , T _{STG}	-55 to +175	°C

Electrical Characteristics

Part Number	Marking	Stand-Off Voltage	Reverse Leakage @V _{RWM}	Breakdown Voltage @I _T		Test Current	Max. Clamping Voltage @I _{pp} 10/1000 μs	
		V _{RWM} (V)	I _R (μA)	V _{BR} (V)Min.	V _{BR} (V)Max.	I _T (mA)	V _c (V)	I _{pp} (A)
ATG36CA	ATG36CA	36	2	40.0	44.2	5	58.1	206.5

Dimensions (P600)

Case Style P600



Dimensions in inches and(millimeters)

Ratings and Characteristic Curves (TA=25 °C unless otherwise noted)

Fig.1 Peak Pulse Power Rating Cure

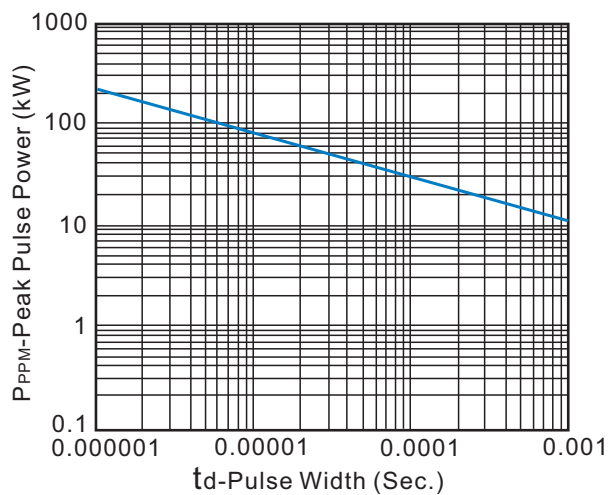


Fig.2 Pulse Waveform

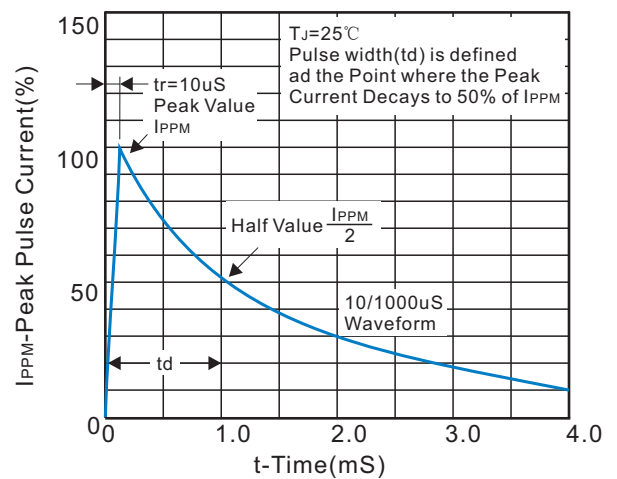
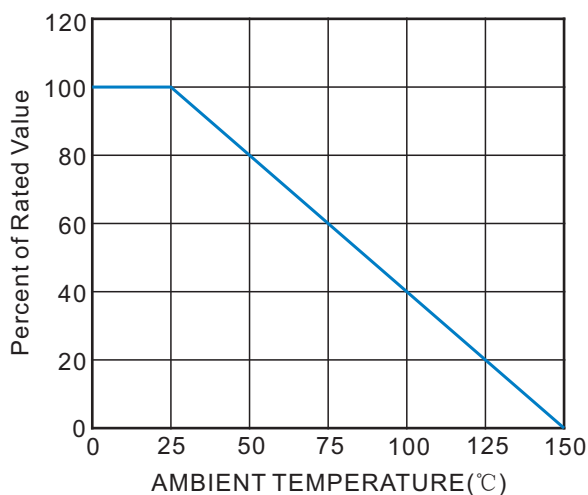


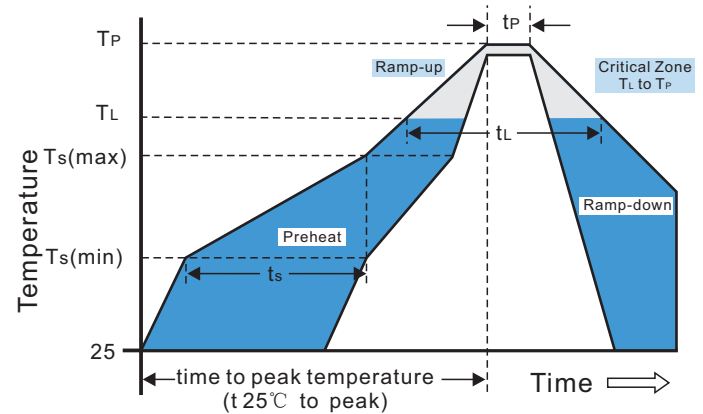
Fig.3 Power Derating Cure



Recommended Soldering Conditions

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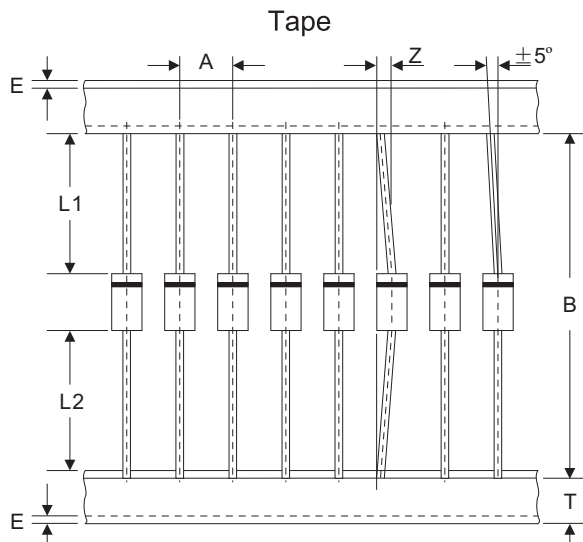
Reflow Condition		
Pre Heat	-Temperature Min($T_{s(min)}$)	+150°C
	-Temperature Max($T_{s(max)}$)	+200°C
	-Time(Min to Max)(t_s)	60-180secs
Average ramp up rate (Liquidus Temp(T_L) to peak)		3°C/sec.Max.
$T_{s(max)}$ to T_L -Ramp-up Rate		3°C/sec.Max.
Reflow	-Temperature(T_L)(Liquidus)	+217°C
	-Temperature(t_L)	60-150secs
Peak Temp(T_P)		+260(+0/-5)°C
Time within 5°C of actual Peak Temp(t_P)		30 secs.Max.
Ramp-down Rate		6°C/sec.Max.
Time 25°C to Peak Temp(T_P)		8 min.Max.
Do not exceed		+260°C



Flow/Wave Soldering(Solder Dipping)

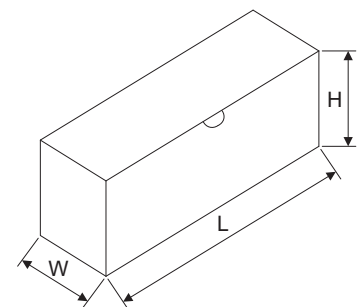
Peak Temperature :	265°C
Dipping Time :	10 seconds
Soldering :	1 time

Packaging



A	B	Z	T	E	L1-L2
10.0±0.5	52.0±0.5	1.2Max	6.0±0.4	1.0Max	1.0Max

Box



Dimensions in millimeters

L	W	H	Quantity
250.0±5.0	78.0±5.0	114.0±5.0	300PCS