





SurgeArresters

陶瓷气体放电管

SE3 Series

Features



- Provide ultra-fast response to surge voltage from slow-rising surge of 100V/s to rapid-rising surge of 1KV/µs.
- Stable breakdown voltage.
- High insulation resistance.
- Low capacitance (≤2pF)
- High holdover voltage
- Large absorbing transient current capability.
- Micro-Gap Design
- Size: 6.0mm*8mm
- Storage and operational temperature: -40°C ~ +85°C
- Meets MSL level 1, per J-STD-020
- Safety certification: UL: E244458

Applications

- Repeaters, Modems.
- Telephone Interface, Line cards.
- Data communication equipment.
- Line test equipment

Part Number Code

SE33 - 230X

F

Series: SE3系列: 46*8 SF8系列: 48*10 LeadType: 0=SMD 3=Thrust

DCLineVoltage: 90X=90V 230X=230V 102X=1000V

Package: F=With Fail-Short mechanism

Dimensions

33 Туре		Dimension (mm)		
T1 T		Symbol	Spec.	Tolerance
		D	6.0	+0.2, -0.5
		Т	8	±0.5
S d -		T1	15.0	Max.
		L	16.0	Max.
33-F Type		S	3.8	±0.3
		d	0.8	±0.1
		R1	7.8	±0.4
S d		R2	6.3	±0.3
30 Type		D	6.0	±0.2
	8 0: 2.2 1.6 Recommended Pad Size	Т	8	±0.5
<u>B1</u>		В	1.0	±0.1
		B1	1.5	±0.2



Electrical Characteristics

Part Number		DC Spark-over Voltage	Maximum Impulse Spark-over Voltage	Nominal Impulse Discharge Current	Alternating Discharge Current	Impulse Life	Minim Insula Resista	tion	Maximum Capacitance
		100V/s	1000V/μs	8/20µs 10times	50Hz,1sec	10/1000µs 100A	Test Voltage	(GΩ)	1MHz
		(V)	(V)	(KA)	(A)	(times)	DC(V)		(pF)
SE33-75X	SE30-75X	75±20%	750	5.0	5.0	200	25	1.0	2.0
SE33-90X	SE30-90X	90±20%	750	5.0	5.0	200	50	1.0	2.0
SE33-100X	SE30-100X	100±20%	750	5.0	5.0	200	50	1.0	2.0
SE33-110X	SE30-110X	110±20%	750	5.0	5.0	200	50	1.0	2.0
SE33-150X	SE30-150X	150±20%	800	5.0	5.0	200	100	1.0	2.0
SE33-230X	SE30-230X	230±20%	800	5.0	5.0	200	100	1.0	2.0
SE33-250X	SE30-250X	250±20%	800	5.0	5.0	200	100	1.0	2.0
SE33-300X	SE30-75X	300±20%	800	5.0	5.0	200	100	1.0	2.0
SE33-350X	SE30-350X	350±20%	850	5.0	5.0	200	100	1.0	2.0
SE33-470X	SE30-470X	470±20%	950	5.0	5.0	200	250	1.0	2.0
SE33-600X	SE30-600X	600±20%	1300	5.0	5.0	200	250	1.0	2.0
SE33-800X	SE30-800X	800±20%	1500	5.0	5.0	200	250	1.0	2.0



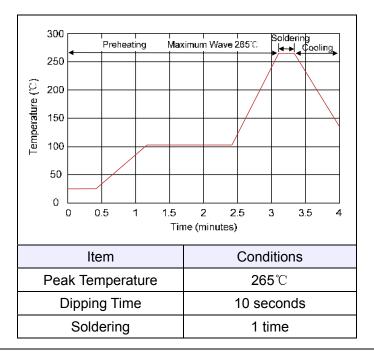
Electrical Ratings

Items	Test Condition/Description	Requirement
DC Spark-over Voltage	The voltage is measured with voltage ramp dv/dt=100V/s. Test is between each side electrode and center electrode.	
Maximum Impulse Spark-over Voltage	The maximum impulse spark-over voltage is measured with voltage ramp dv/dt=1000V/µs. Test is between each side electrode and center electrode.	
Impulse Discharge Current	Maximum surge current that can be applied through center electrode with 8/20µs waveform, for 10 times with 3min interval time, which will be equally divided between each side electrode to center electrode, without causing the DC breakdown voltage to change more than 25% form its initial measured value. Crest value 100 90 10 10 10 10 10 10 10 10 10 10 10 10 10	To meet the specified value
Alternating Discharge Current	Rated RMS value of AC current at 50Hz, 1 sec. for 10 times with interval time 3 min. DC spark-over voltage shall not change more than ±25% from its initial value. Test is between each side electrode and center electrode. IR>10 ⁸ ohms (-20%, +30% for 70~90V).	
Insulation Resistance	The resistance of gas tube shall be measured between each side electrodes and center electrode.	
Capacitance	The capacitance of gas tube shall be measured between each side electrodes and center electrode. Test frequency: 1MHz	

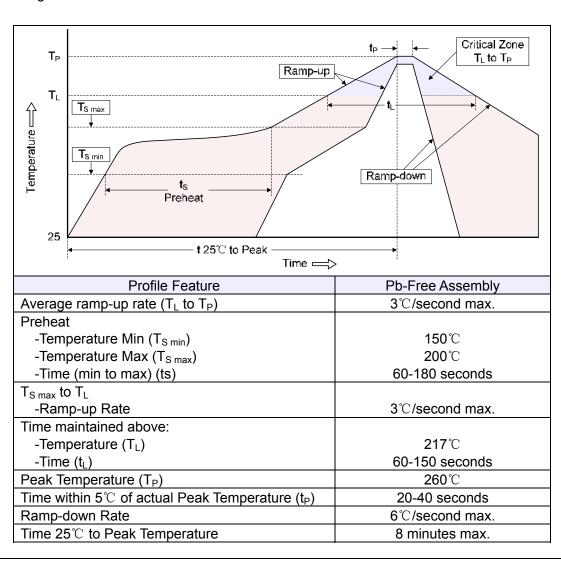
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Recommended Soldering Conditions

Wave Soldering



Reflow Soldering

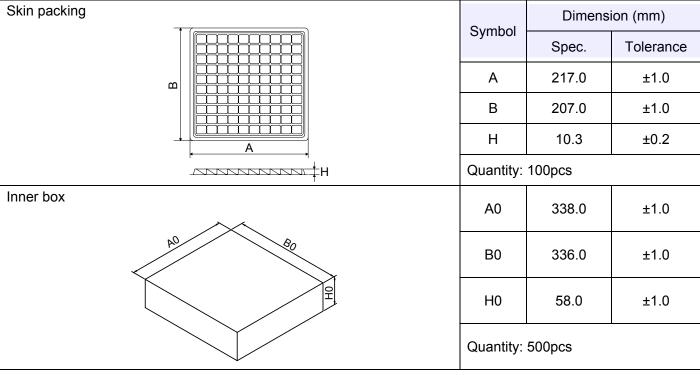


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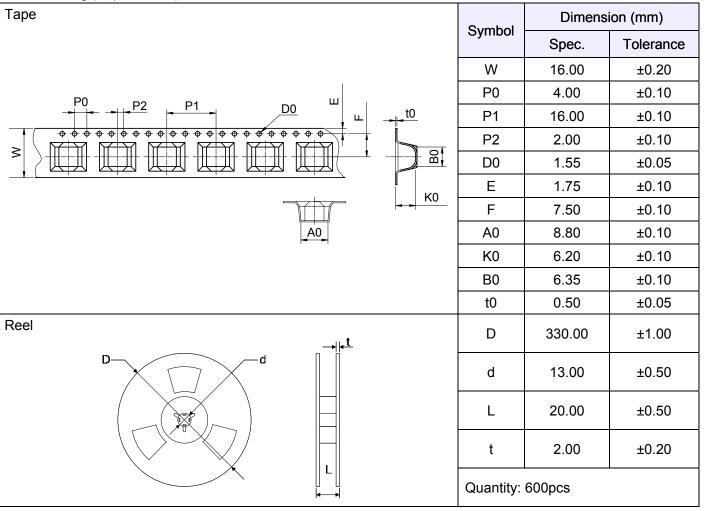
Gas Discharge Tubes - SE3 Series

Packaging

Axial Packing (Bulk)



SMD Packing (Tape & Reel)



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