

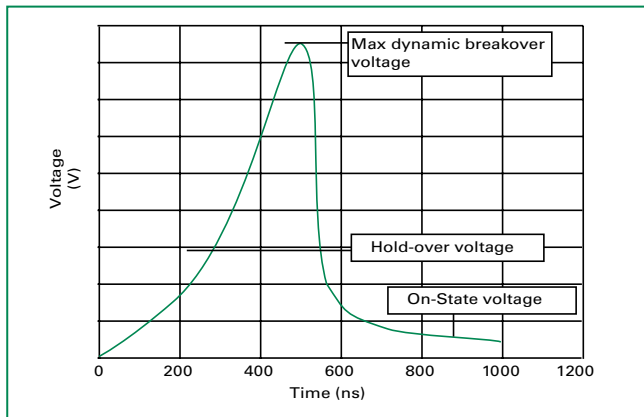
Electrical Characteristics

Part Number	Device Specifications (at 25°C)								Life Ratings	
	DC Breakdown in Volts (@100V/s)			Impulse Breakdown in Volts (@100V/μs)	Impulse Breakdown In Volts (@1 Kv/μsec)	Insulation Resistance	Capacitance (@1MHz)	Arc Voltage (@1A)	Glow to Arc Transition Current	Glow Voltage
	MIN	TYP	MAX	MAX		MIN	MAX			
SE140	98	140	182	800	900	>1GΩ (at 100VDC)	<0.5 pf	~10 V	<1.0 A	~60 V
SE200	140	200	260	700	1100		<0.3 pf		<1.0 A	
SE230	172	230	276	600	800		<0.5 pf		<1.0 A	
SE350	265	350	495	900	1150		<0.5 pf		<1.0 A	
SE470	329	470	611	1050	1200		<0.3 pf		<1.0 A	
SE500	400	500	600	1050	1200		<0.3 pf		<1.0 A	
									Nominal Impulse Discharge Current (x10 @8/20μs)	Nominal Impulse Discharge Current (x10 @5/320μs)
									0.5 kA	150 A
									0.5 kA	
									0.5 kA	

Product Characteristics

Materials	Device Tin Plated 17.5±12.5 Microns Construction Ceramic Insulator.
Storage and Operational Temperature	-40 to +90 °C

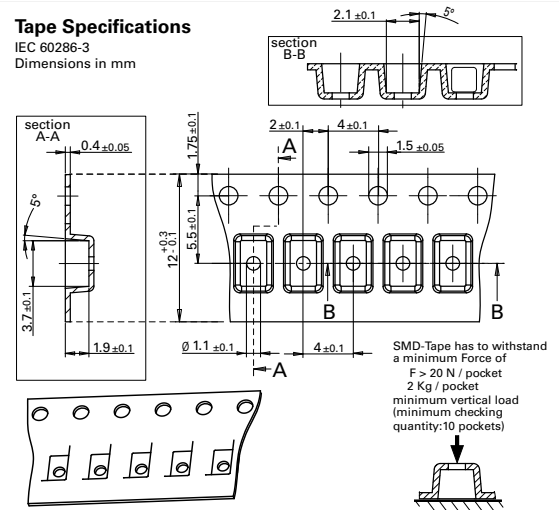
Voltage vs. Time Characteristic



Tape and Reel Dimensions (IEC 60286-3, dimension in mm)

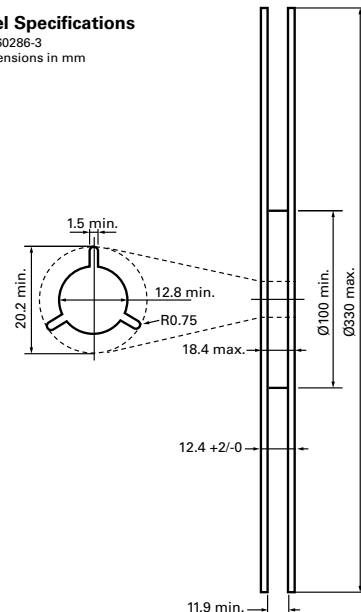
Tape Specifications

IEC 60286-3
Dimensions in mm



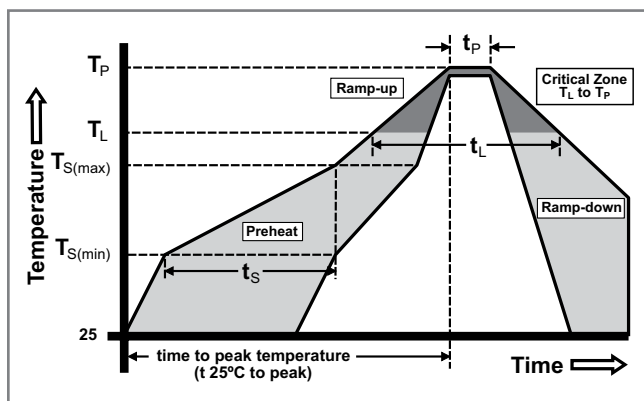
Reel Specifications

IEC 60286-3
Dimensions in mm

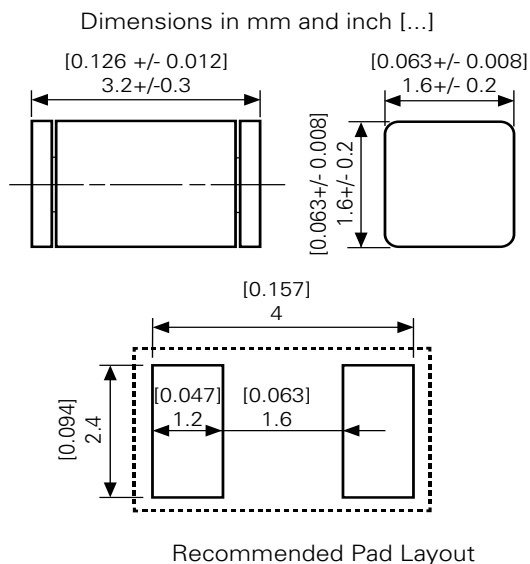


Soldering Parameters - Reflow Soldering (Surface Mount Devices)

Reflow Condition		Pb – Free assembly
Pre Heat	- Temperature Min ($T_{s(min)}$)	150°C
	- Temperature Max ($T_{s(max)}$)	200°C
	- Time (Min to Max) (t_s)	60 – 180 secs
Average ramp up rate (Liquidus Temp (T_L) to peak		3°C/second max
$T_{s(max)}$ to T_L - Ramp-up Rate		5°C/second max
Reflow	- Temperature (T_L) (Liquidus)	217°C
	- Temperature (t_L)	60 – 150 seconds
Peak Temperature (T_p)		260 ^{+0/-5} °C
Time within 5°C of actual peak Temperature (t_p)		10 – 30 seconds
Ramp-down Rate		6°C/second max
Time 25°C to peak Temperature (T_p)		8 minutes Max.
Do not exceed		260°C



Device Dimensions



Part Numbering System and Ordering Information

SE xxx

Series ———

1206 Square GDT

Breakdown Voltage ———

140 = 140V
200 = 200V
230 = 230V
350 = 350V
470 = 470V
500 = 500V

Packaging

Part Number	Packaging Option	Quantity
SE140	Tape and Reel	3,000
SE200	Tape and Reel	3,000
SE230	Tape and Reel	3,000
SE350	Tape and Reel	3,000
SE470	Tape and Reel	3,000
SE500	Tape and Reel	3,000