

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	Nominal Impulse Discharge Current (x10 @8/20μs)	Nominal Impulse Discharge Current (x10 @5/320μs)
	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	0.5 kA	150 A
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		0.5 kA	
SE500	400	500	600	1050	1200		<0.3 pF		<1.0 A		0.5 kA	

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

The graph illustrates the voltage-time characteristics of a thyristor during its turn-on process. The y-axis represents Voltage (V) and the x-axis represents Time (ns). The curve starts at (0,0), rises to a peak labeled 'Max dynamic breakover voltage' at approximately 500 ns, then drops to a level labeled 'Hold-over voltage' at approximately 600 ns. Finally, the voltage settles at a constant level labeled 'On-State voltage' from 600 ns to 1000 ns.

Tap Specifications

IEC 60286-3
Dimensions in mm

The drawing shows a side view of a tap with the following dimensions: a top width of 2.1 ± 0.1 mm, a 5° chamfer, a central hole diameter of 0.4 ± 0.05 mm, a shoulder width of 3.7 ± 0.1 mm, a base width of 1.9 ± 0.1 mm, and a 5° chamfer at the bottom. Section A-A is indicated. The top view shows a rectangular body with four circular holes. Dimensions include a total length of 12 ± 0.3 mm, a distance from the front face to the first hole of 5.5 ± 0.1 mm, a hole diameter of $\varnothing 1.1 \pm 0.1$ mm, a hole-to-hole pitch of 4 ± 0.1 mm, and a distance from the last hole to the back face of 1.5 ± 0.05 mm. Section B-B is indicated. A note specifies: 'SMD-Tape has to withstand a minimum Force of $F > 20 \text{ N}$ / pocket 2 Kg / pocket minimum vertical load (minimum checking quantity: 10 pockets)'. A detail view shows a cross-section of a hole with a downward arrow indicating the force direction.

Technical Specifications

0286-3
Dimensions in mm

The drawing shows a door handle assembly. The cross-section (left) is circular with a central vertical slot. Dimensions for the cross-section include: a top slot width of 1.5 min., a total height of 20.2 min., a central horizontal slot width of 12.8 min., and a fillet radius of R0.75. The side view (right) shows the handle's profile with a total height of 18.4 max., a mounting plate width of 12.4 +2/-0, and a circular hole with a diameter of Ø100 min. to Ø130 max. A dimension of 11.9 min. is shown at the bottom of the side view.

1.5 min.

20.2 min.

12.8 min.

R0.75

18.4 max.

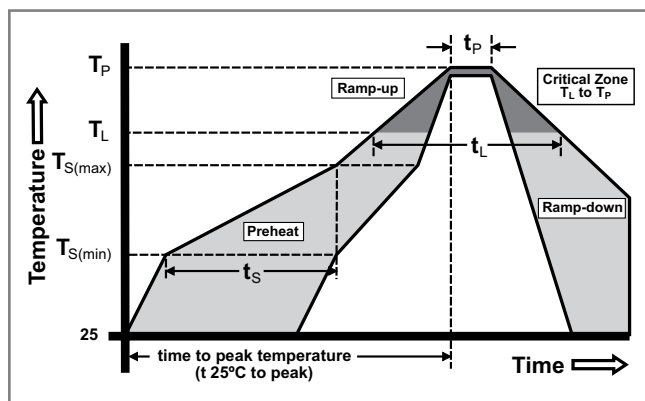
12.4 +2/-0

11.9 min.

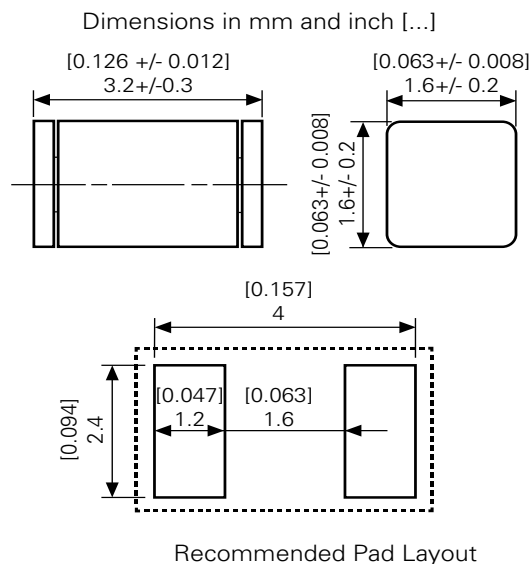
Ø100 min. Ø130 max.

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