

20V ~ 200V 3.0A SMA
Surface Mount Schottky Barrier Rectifiers, Reverse Voltage 20 to 200V, Forward Current: 3.0A ,SMA package.

RoHS 2011/65/EU

Low power loss, high efficiency High forward surge current capability Lead free in comply with EU RoHS 2011/65/EU directives, For surface mounted applications, HF product.

General purpose.

/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating									Unit
		SS32	SS34	SS345	SS36	SS38	SS310	SS312	SS315	SS320	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	40	45	60	80	100	120	150	200	V
Maximum RMS voltage	V_{RMS}	14	28	32	42	56	70	84	105	140	V
Maximum DC Blocking Voltage	V_{DC}	20	40	45	60	80	100	120	150	200	V
Maximum Average Forward Rectified Current	$I_{F AV}$	3.0									A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	80									A
Typical Junction Capacitance	C_j	250			180						pF
Typical Thermal Resistance ¹	$R_{\theta JA}$	70									/W
Operating and Storage Temperature Range	T_j, T_{stg}	-55~+150									

Note:

1 P.C.B. mounted with 2.0 X 2.0" (5 X5 cm) copper pad areas.

/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Rating									Unit
			SS32	SS34	SS345	SS36	SS38	SS310	SS312	SS315	SS320	
Maximum Instantaneous Forward Voltage	V_F	$I_F=3.0A$	0.55			0.70	0.85			0.95	V	
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	$T_a=25$	0.5			0.3						mA
		$T_a=100$	5.0			3.0						mA

/ Electrical Characteristic Curve

Fig.1 Forward Current Derating Curve

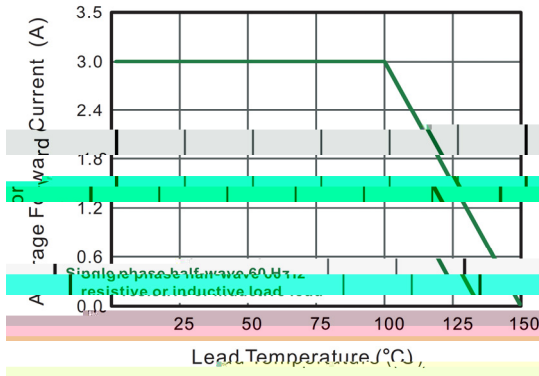


Fig.2 Typical Reverse Characteristics

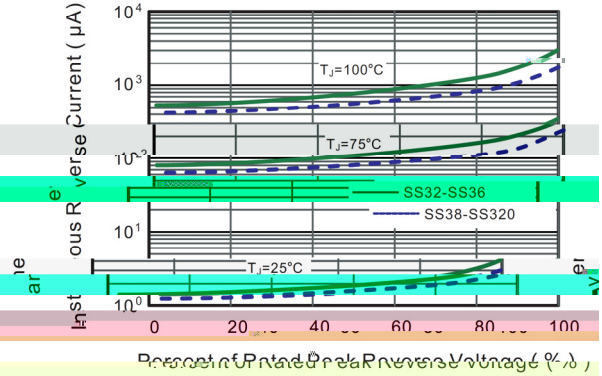


Fig.3 Typical Forward Characteristic

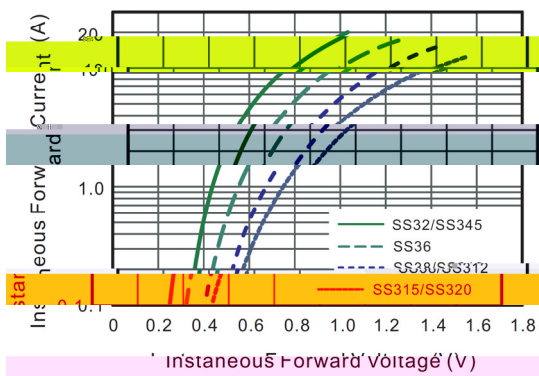


Fig.4 Typical Junction Capacitance

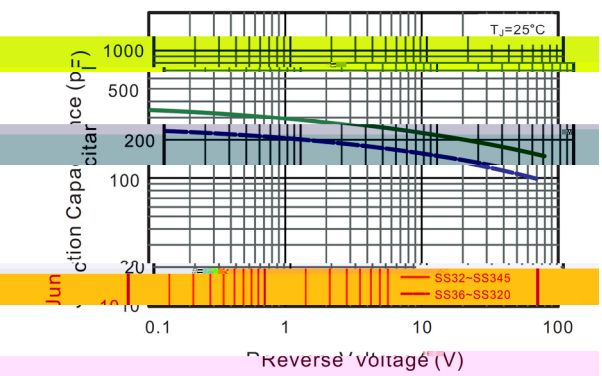


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

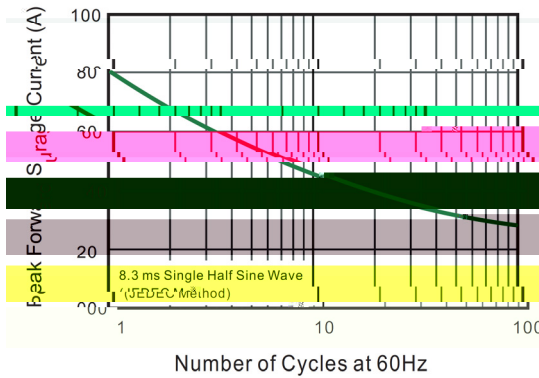
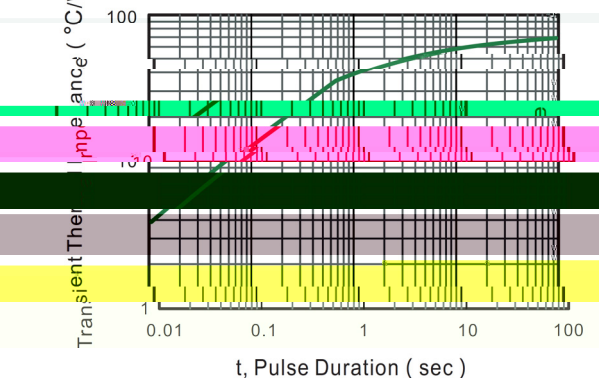
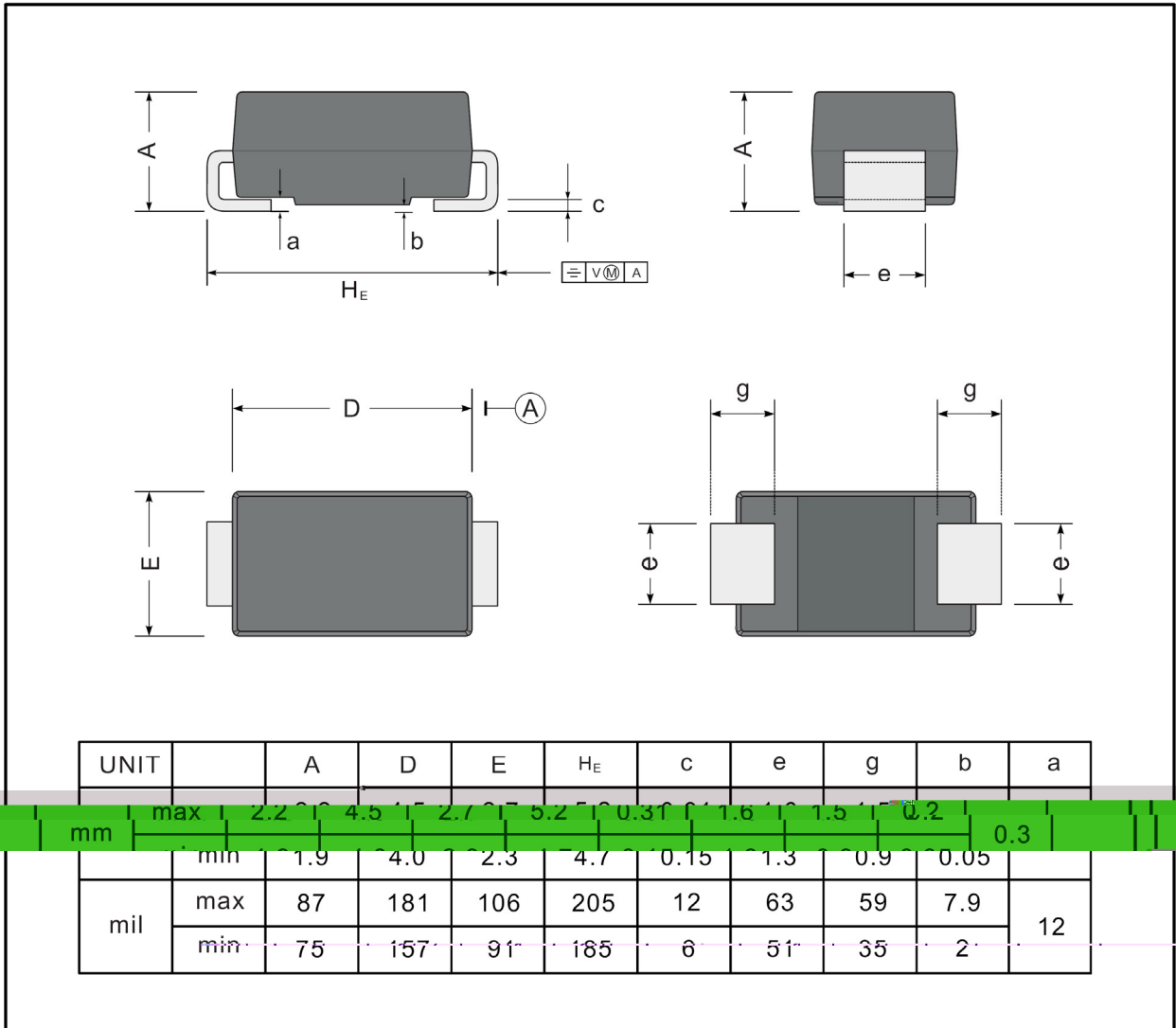


Fig.5- Typical Transient Thermal Impedance

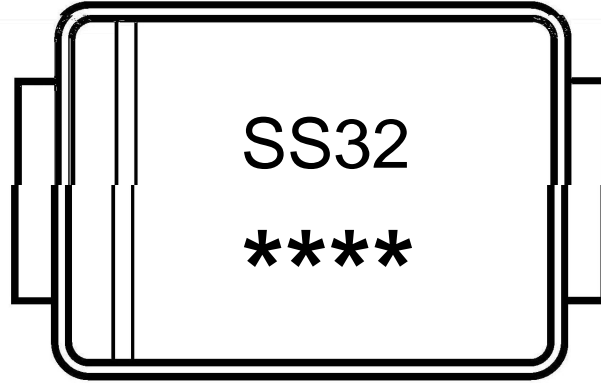


/ Package Dimensions

SMA



/ Marking Instructions



SS32

1

3

Note:

SS32 Product Type Code

**** Lot No. Code The 1st means:YM Code The last 3 means:little Lot No
Code

Marking

Type number	Marking code
SS32	SS32
SS34	SS34
SS345	SS345
SS36	SS36
SS38	SS38
SS310	SS310
SS312	SS312
SS315	SS315
SS320	SS320

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Note:

- | | | | |
|---|---------|-----------|---|
| 1 | 150 180 | 60 90sec; | 1.Preheating:150~180 , Time:60~90sec. |
| 2 | 245±5 | 5±0.5sec; | 2.Peak Temp.:245±5 , Duration:5±0.5sec. |
| 3 | 2 10 | /sec. | 3. Cooling Speed: 2~10 /sec. |

/ Resistance to Soldering Heat Test Conditions

260±5 10±1 sec. Temp.:260±5 Time:10±1 sec

/ Packaging SPEC.

/ REEL

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	Units/Reel 只/卷盘	Reels/Inner Box 卷盘/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Reel	Inner Box 盒	Outer Box 箱