

FrelTec

Mathildenstr. 10A
82319 Starnberg
Germany

Super Fast Surface Mount Rectifier SMA

SMA

Super Fast Surface Mount Rectifier

SPECIFICATION

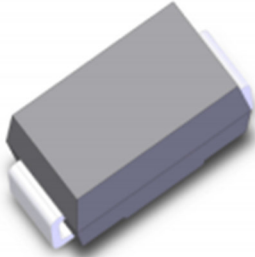
68B	GRZ520xxxx	SMAX	L0H
Type	Type	Package	Packing
68B: Super Fast Surface Mount Rectifier	GRZ520	SMA	L0H: Embossed tape and reel for 7,5k pcs(13" reel)

All products according to RoHS (2015/863/EU)

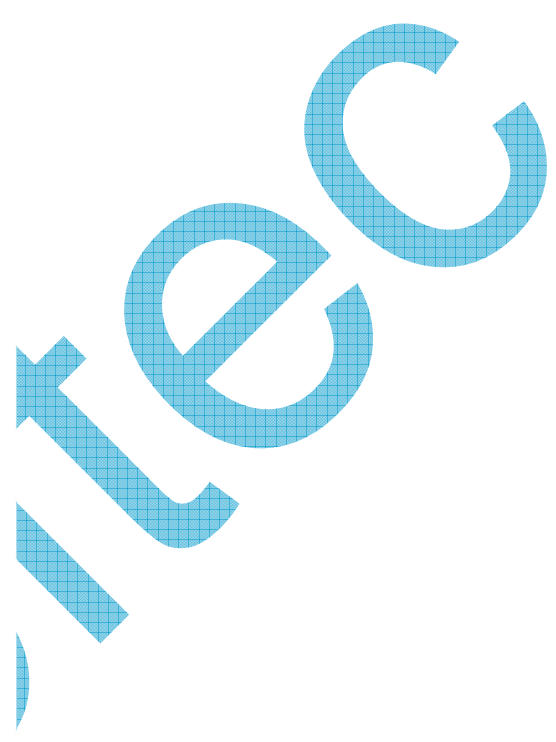
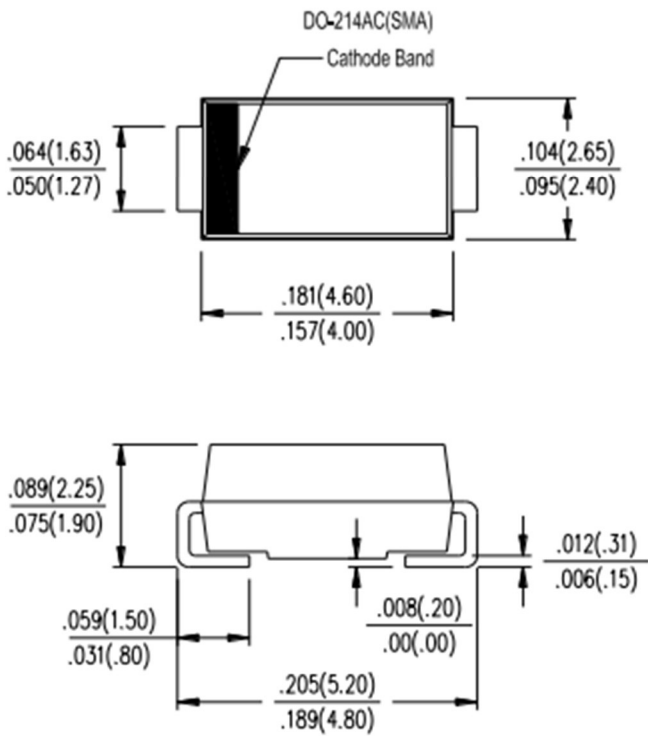
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PACKAGE OUTLINE



DO-214AC(SMA)



SMA

Super Fast Surface Mount Rectifier

Maximum Ratings & Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbols	GN2P20	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	2000	V
Maximum RMS voltage	V_{RMS}	1400	V
Maximum DC blocking voltage	V_{DC}	2000	V
Maximum average forward rectified current See Fig. 1	$I_{F(AV)}$	0,5	A
Peak forward surge current 8,3 ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	25,0	A
Maximum instantaneous forward voltage @ 1,0A	V_F	1,7	Volts
Maximum DC reverse current at rated DC blocking	@TA = 25°C	5,0	uA
	@TA = 125°C	250,0	
Maximum reverse recovery time	t_{rr} IF=0,5A, IR=1,0A Irr=0,5A	300	ns
Typical junction capacitance (Note 1)	C_j	5,0	pF
Typical thermal resistance (Note 2)	$R_{\theta JA}$	20,0	°C/W
Operation junction and storage temperature range	T_j, T_{STG}	-55 to + 150	°C

Notes: 1. Measured at 1 MHz and Applied $V_R = 4,0$ D.C.

3. Thermal resistance from junction to ambient, 8,0 x 8,0mm copper pads to each terminal.

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Characteristics(Typical)

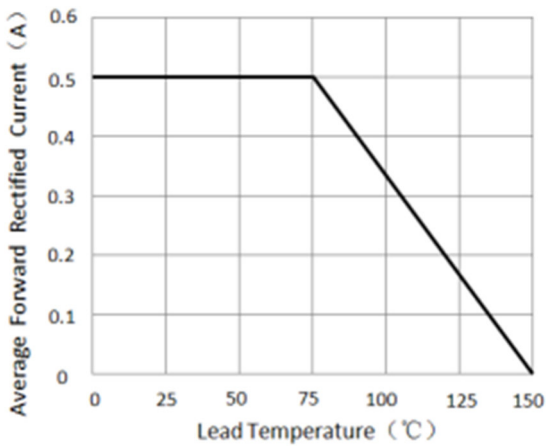


Figure 1. Forward Current Derating Curve

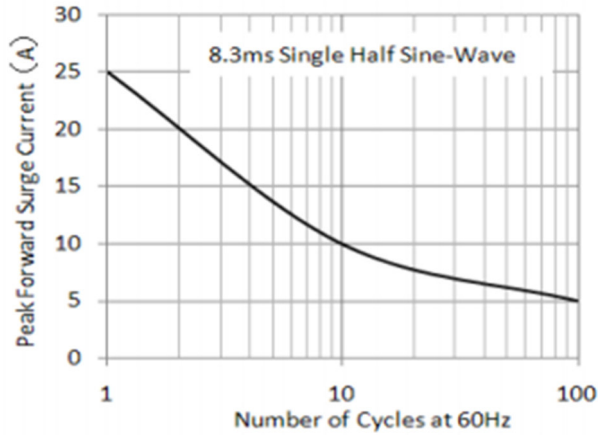


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current

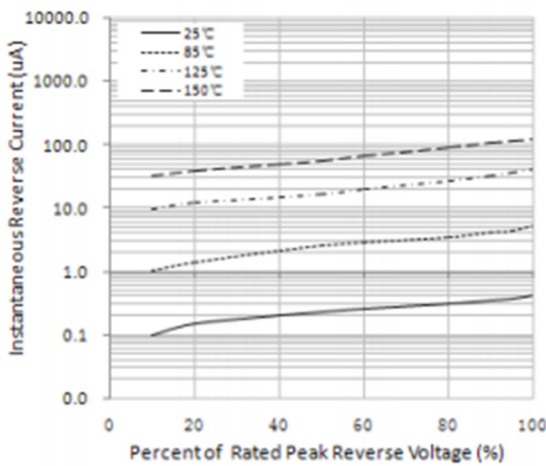


Figure 3. Typical Reverse Characteristics

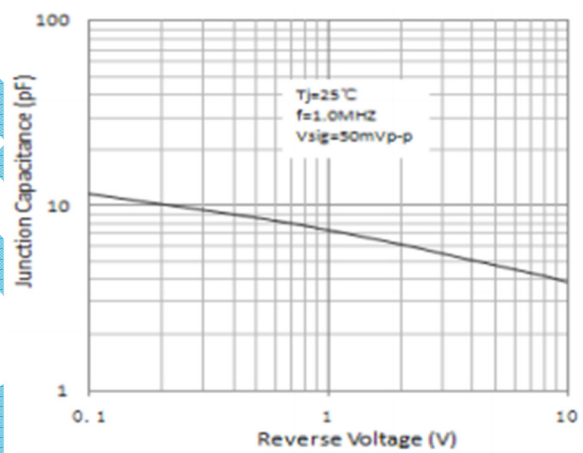


Figure 4. Typical Junction Capacitance

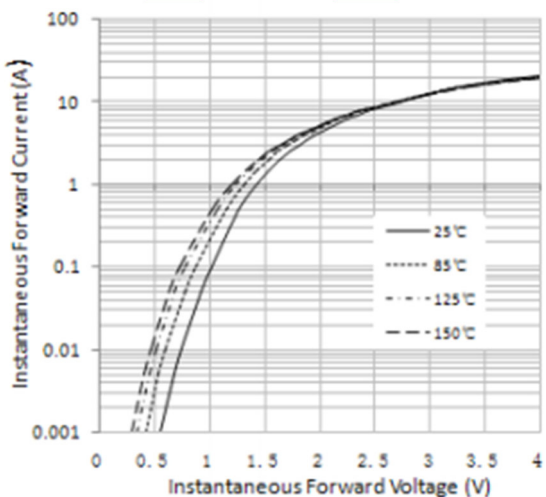
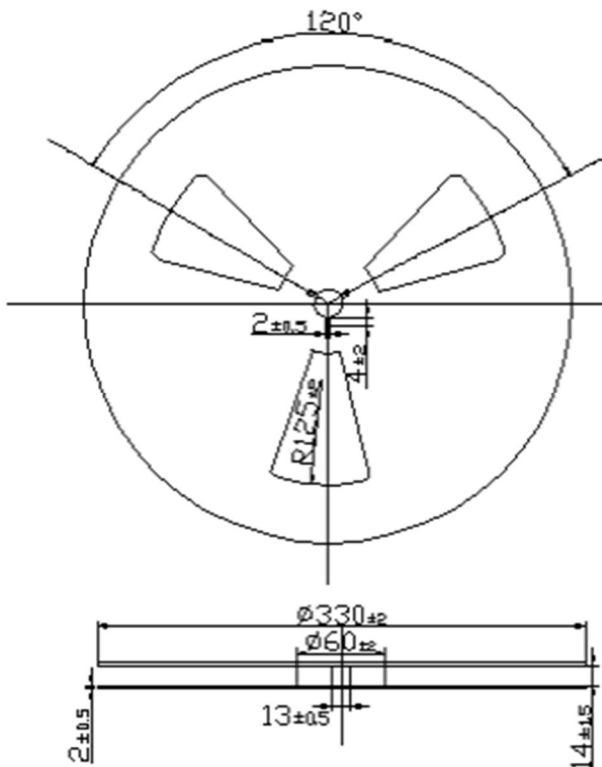


Figure 5. Typical Instantaneous Forward Characteristics

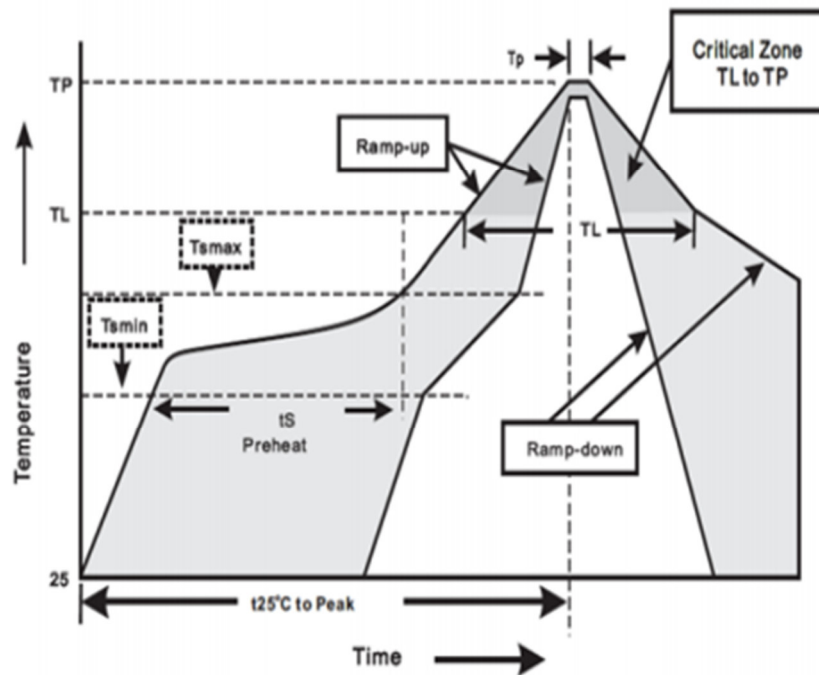
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Size (Unit:mm)



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Soldering Parameters



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Stock period

The performance of these products, including the solderability, is guaranteed for 12 month, provided that they remain packed as they were when delivered and stored at a temperature of 20-30°C and a relative humidity 20-60%RH

11/5/2020

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