

SBG3030CT - SBG3045CT

Maximum Ratings ($@T_A = +25^{\circ}C$, unless otherwise specified.)

Single phase, half wave, 60Hz, resistive or inductive load.

r or capacitive load, derate current by 20%.					
Characteristic	Symbol	SBG 3030CT	SBG 3040CT	SBG 3045CT	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage (Note 2)	V _{RRM} V _{RWM} VR	30	40	45	V
RMS Reverse Voltage	V _{R(RMS)}	21	28	32	V
Average Rectified Output Current $@ T_C = +100^{\circ}C$	lo	30			Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-wave Superimposed On Rated Load	I _{FSM}	250		А	

Thermal Characteristics

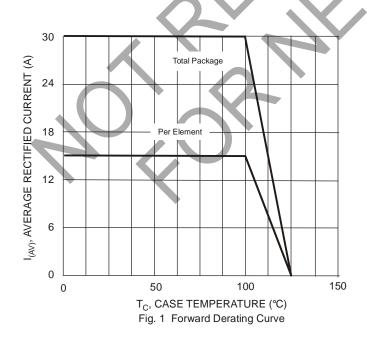
Unit
°C/W
°C
°C
Ŧ

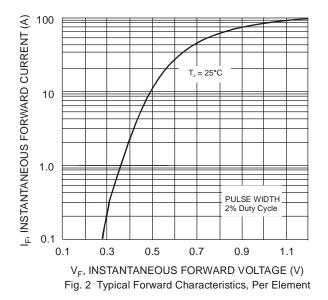
Electrical Characteristics (@T_A = +25°C, unless otherwise specified.)

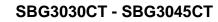
Characteristic		Symbol	Value	Unit
Forward Voltage, Per Element	@ I _F = 15A, T _C = +25°C	V _{FM}	0.55	V
Peak Reverse Current	@ T _J = +25°C		1.0	m 4
at Rated DC Blocking Voltage (Note 2)	@ T _J = +100°C	IRM	75	mA
Typical Total Capacitance (Note 4)		Ст	420	pF

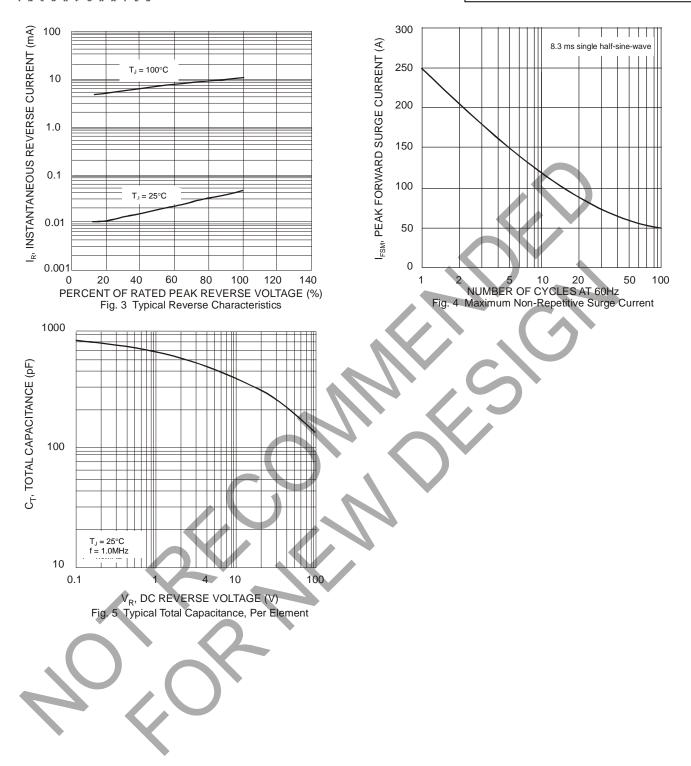
Notes: 2. Short duration pulse test used to minimize self-heating effect. 3. Thermal resistance junction to case mounted on heatsink.

4. Measured at 1.0MHz and applied reverse voltage of 4.0V DC and per element.











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Value (in mm) 16.9

1.1

10.8

3.5

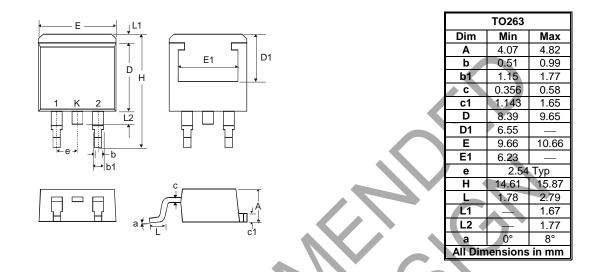
7.01

2.5

Package Outline Dimensions

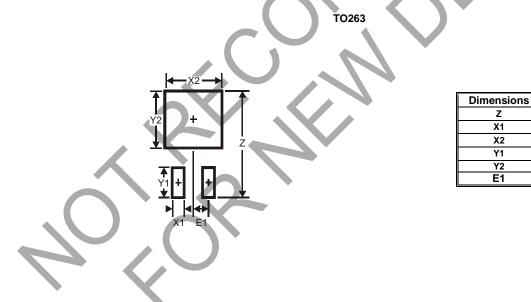
Please see http://www.diodes.com/package-outlines.html for the latest version.

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Suggested Pad Layout

Please see http://www.diodes.com/package-outlines.html for the latest version.





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