

■ Productor Character

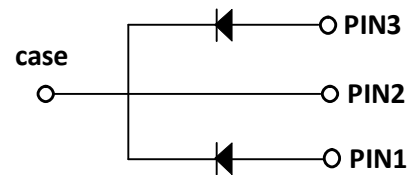
- Half Bridge Rectified、Common Cathode Structure.
- Multilayer Metal -Silicon Potential Structure.
- Beautiful High Temperature Character.
- Have Over Voltage protect loop, high reliability.
- RoHs Product.

■ Primary Use

- Low Voltage High Frequency Switching Power Supply.
- Low Voltage High Frequency Invers Circuit.
- Low Voltage Continued Circuit and Protection Circuit.

■ Summarize

- BD20100CS/BD20100CT Device optimized for ultra-low forward voltage drop to maximize efficiency in Power Supply applications.



Absolute Maximum Ratings

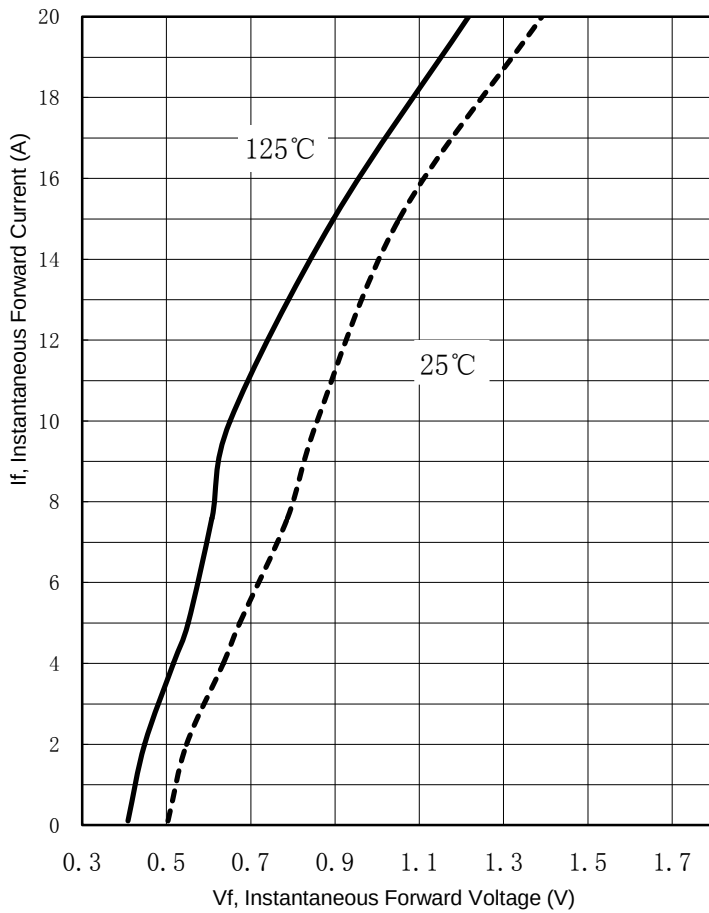
Item	Symbol	Data	Unit
Maximal Inverted Repetitive Peak Voltage	VRRM	100	V
Maximal DC Interdiction Voltage	VDC	100	V
Average Rectified Forward Current TC=150°C Whole Device	IFAV	20	A
Unilateral		10	
Forward Peak Surge Current (Rated Load 8.3 Half Mssine Wave-According to JEDEC Method)	IFSM	150	A
Operating Junction Temperature	TJ	-40- +175	°C
Storage Temperature	TSTG	-40- +175	°C
Maximum Thermal Resistance Junction-to-Case	RθJC	4.0	°C/W

Electricity Character

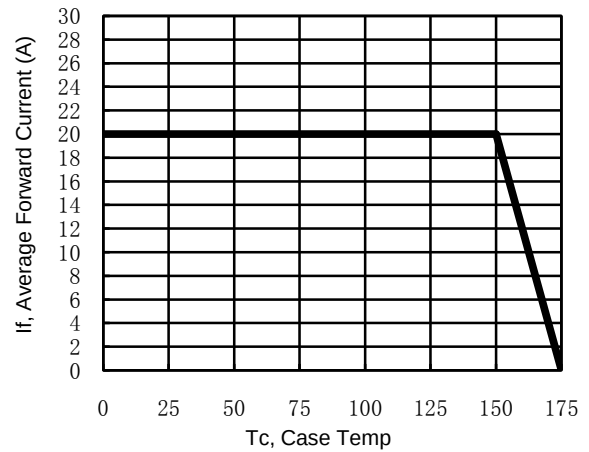
Item	Test Condition		Minimum	Representative	Maximum	Unit
IR	TJ =25°C	VR=VRRM			20	uA
	TJ =125°C				10	mA
VF	TJ =25°C	IF=10A			0.85	V

*IF(AV)= 5A×2

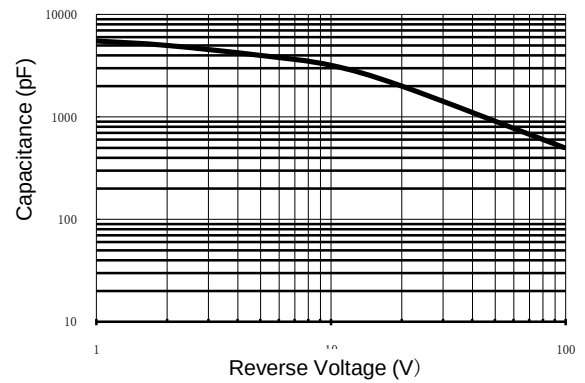
The forward voltage and forward current curve.



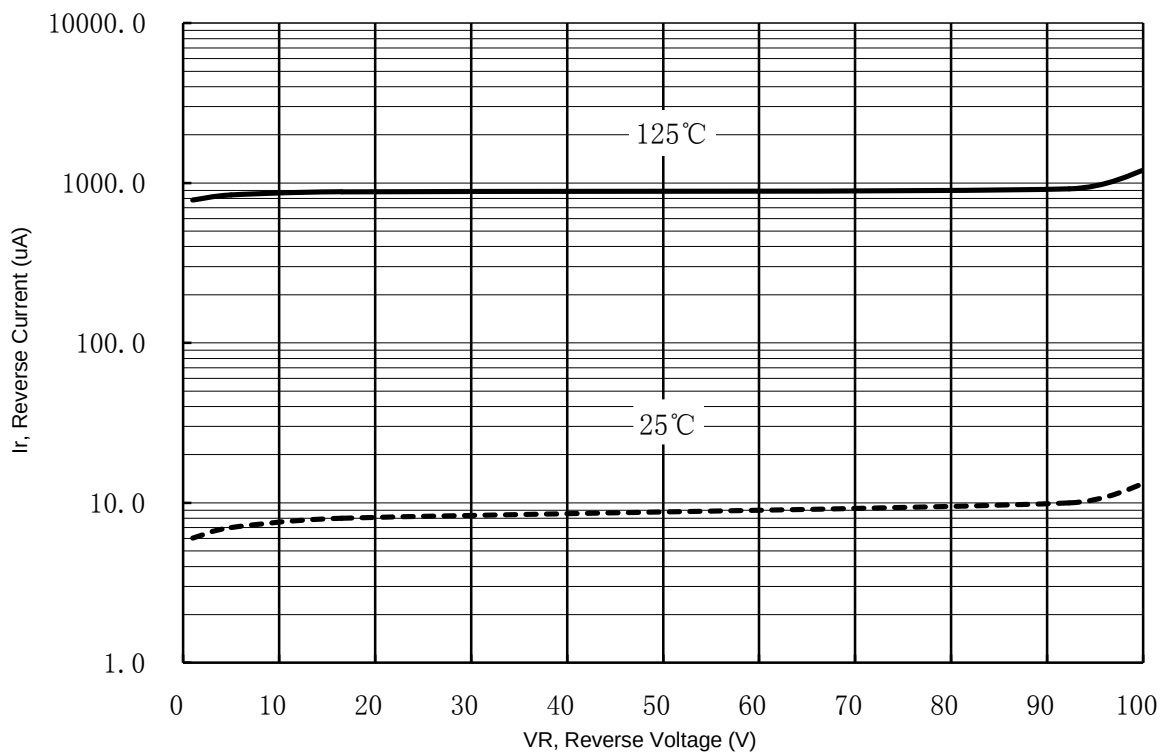
Current Derating Curve, Per Element

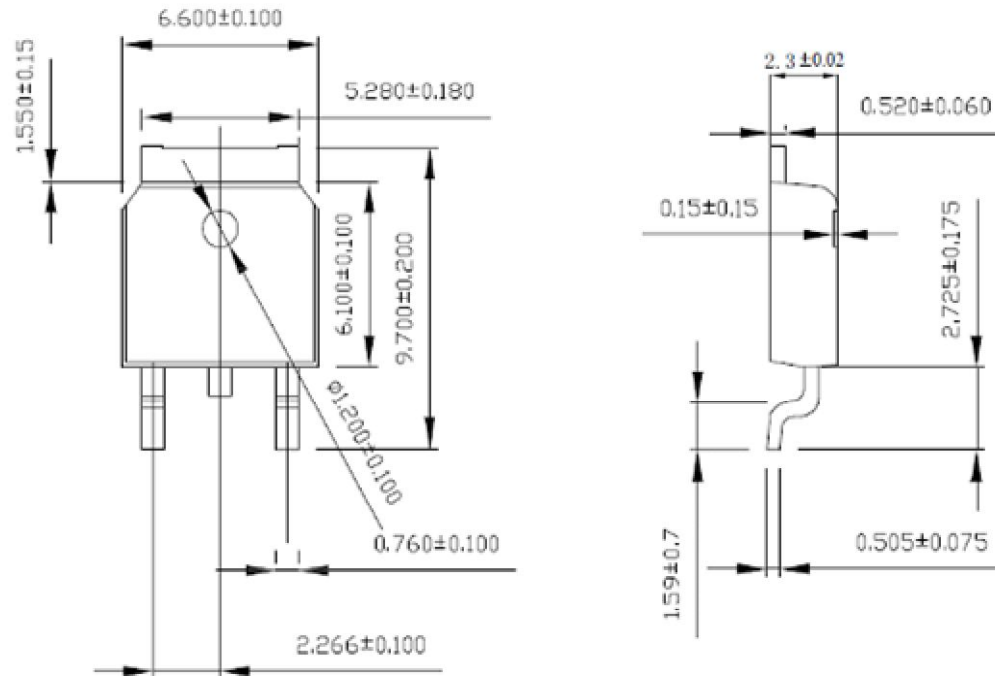
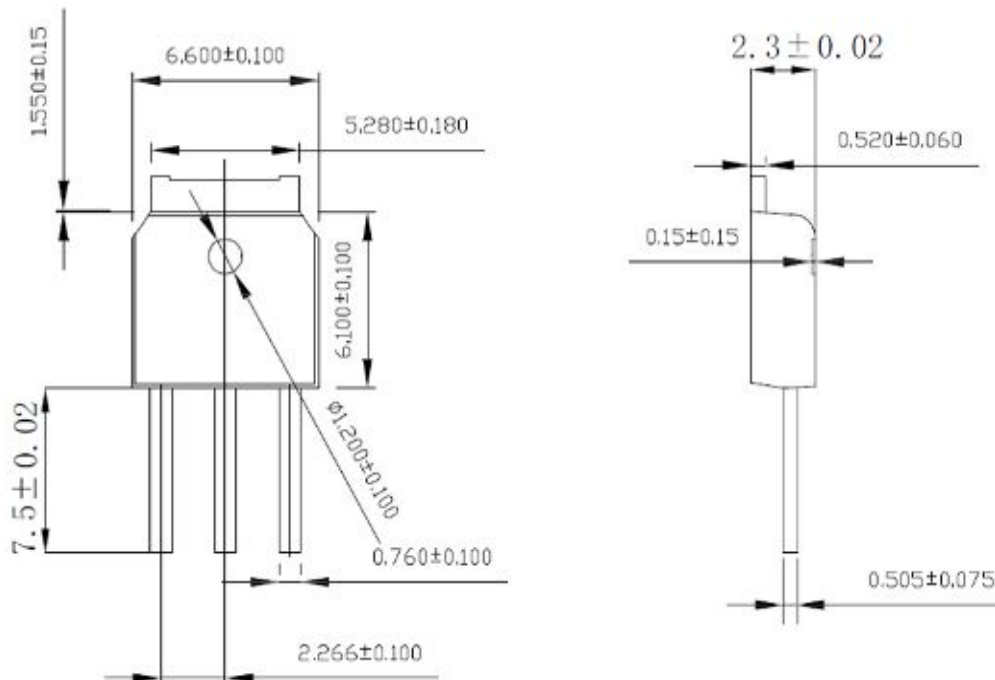


The crunode capacitance curve



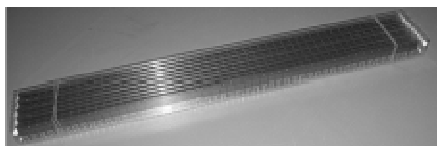
The reverse leak current and the reverse voltage (single-device) curve.



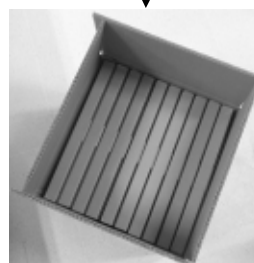
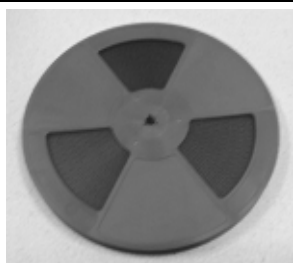
Package Outline Dimensions**TO-252-2L****TO-251-3L**

Packing Information

Part Number	Quantity	Size (mm)
tube	80 pieces	540*15*5
inner box	4000 pieces	554*135*70
outer container	40000 pieces	572*382*300



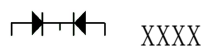
Part Number	Quantity	Size (mm)
reel	50 pieces	330*25
inner box	2500 pieces	340*336*29
outer container	25000 pieces	353*346*365



Marking



BD20100CT



- 1.BD20100CT/BD20100CS 为产品型号
- 2.XXXX代表日期码，第一码表示公元年的最后一码，第二码表示生产时当月码（A,B,C...为一月，二月，三月...），第三，四码表示大量生产时批次码
例如:2013年第一月生产的，D/C为HAXX。
- 3.TO-252封装型号后面加“CS”，TO-251封装型号后面加“CT”