MHCHXM

High-Voltage Schottky Diodes

SR2045CS

■ 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

SR2045CS 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	45	V
*Average Rectified Forward Current (Rated VR-20Khz Square Wave) - 50% duty cycle	IFAV	20	A
Typical Thermal Resistance (per leg) Package = TO-252	$R_{\theta Jc}$	2	℃/W
		4	℃/W
Forward Peak Surge Current(Rated Load 8.3 Half Mssine Wave-According to JEDEC Method)	IFSM	150	A
Maximum Rate of Voltage Change (at Rated VR)	dv/dt	10000	V/uS
Peak Repetitive Reverse Surge Current (2uS-1Khz)	IRRM	1	A
Operating Junction Temperature	TJ	-40- +175	℃
Storage Temperature	TSTG	-40- +175	℃

Electricity Character

Item	Test Condition		TYP.	MAX.	Unit
IR	TJ =25℃	VR=VRRM		10	uA
	TJ =125℃			1	mA
VF	TJ =25℃	IF=10A		0.65	V
	TJ =125℃	IF=10A	0.48	0.51	V

*IF(AV)= 10A×2

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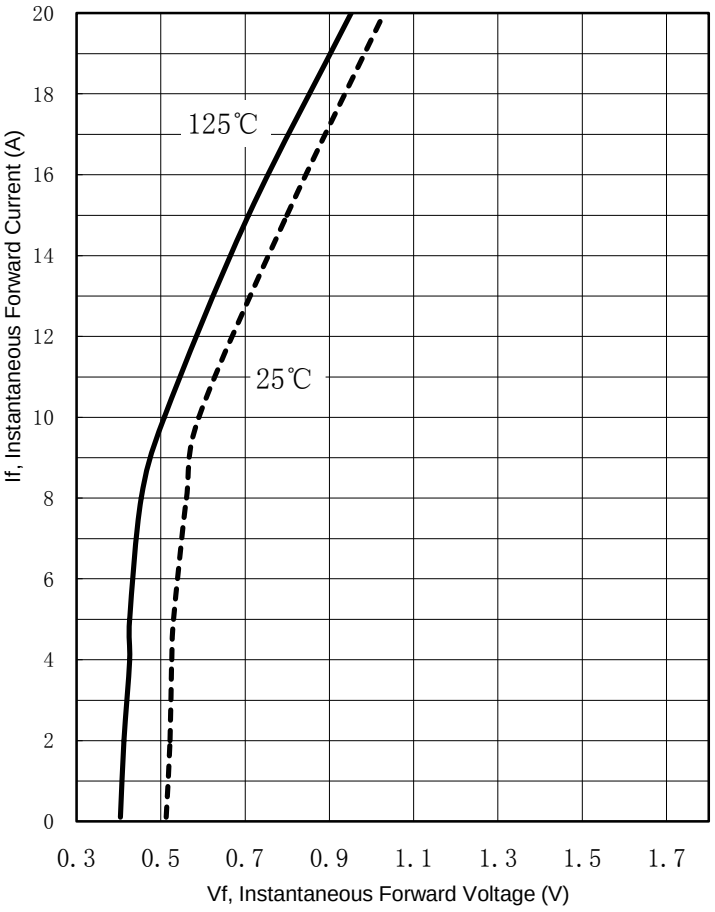
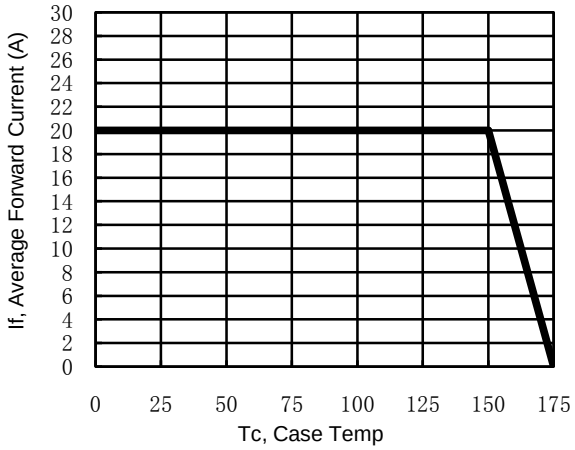
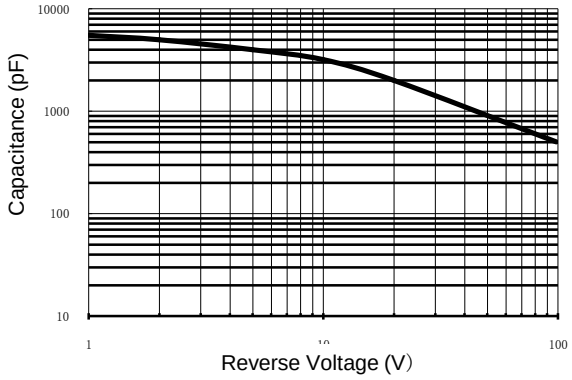
The forward voltage and forward current curve.



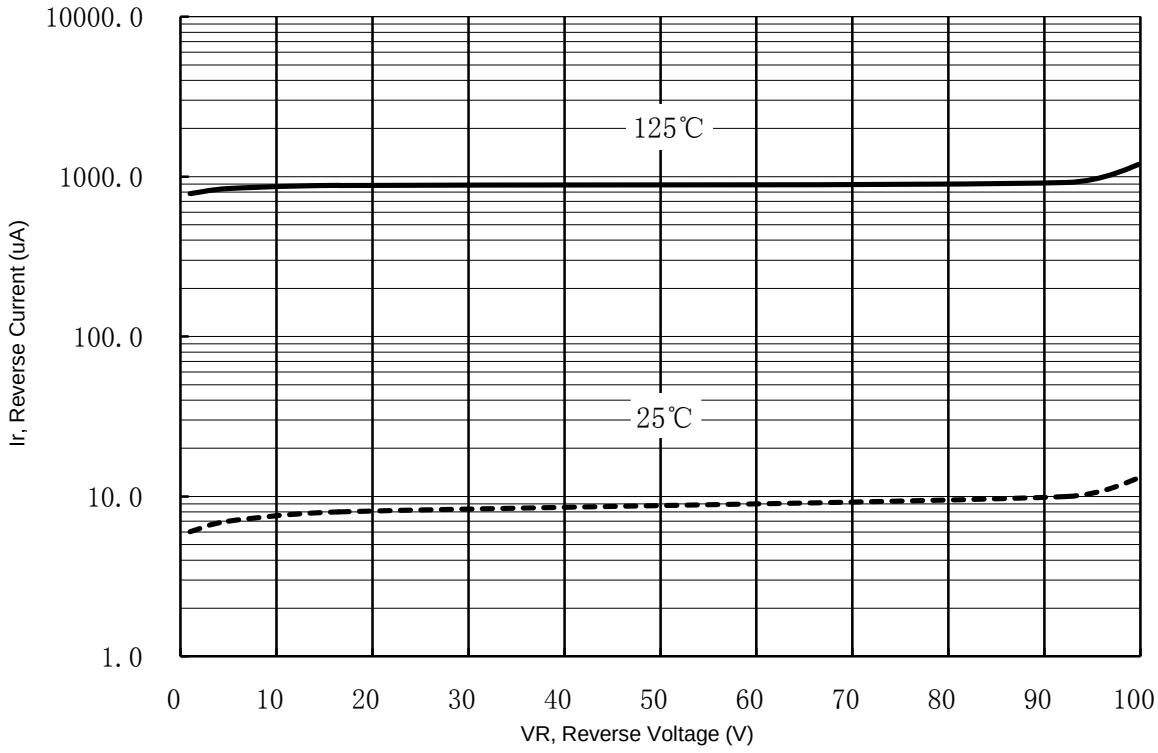
Current Derating Curve, Per Element



The crunode capacitance curve



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



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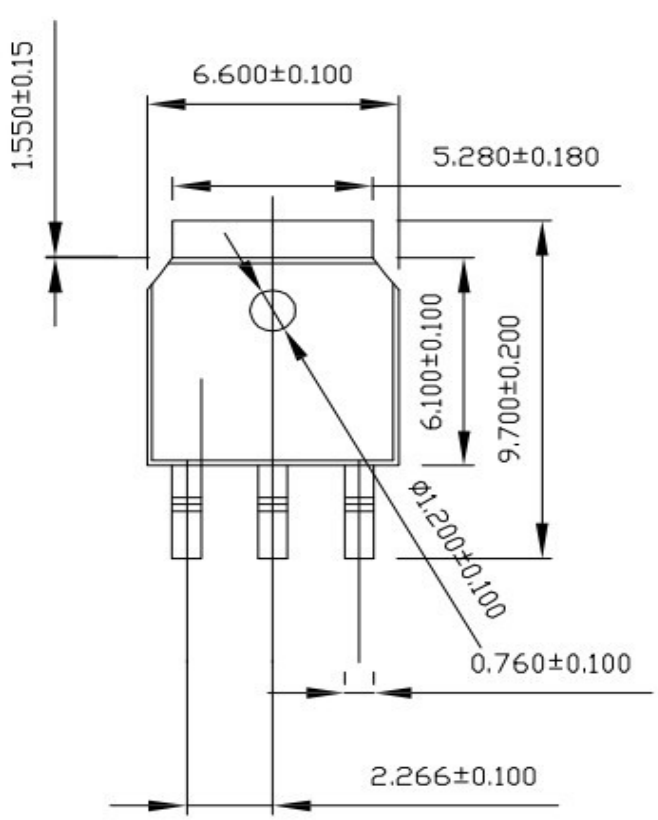
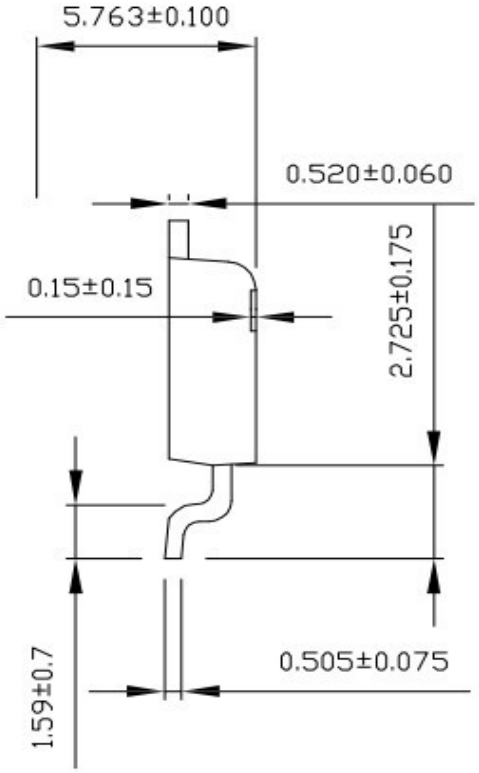
Package Outline Dimensions millimeters

TO-252





Ordering information

MHCHXM
SR2045CS
XXXX

1.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:2009年第一月生产的，D/C为9AXX。
2.包装及出货:ROHS,50PCS/管,1K/BOX,5K(5K BOXEX)/CARTON, BOXEX及CARTON。
3.ITO-220封装后面加“F”区别。

注意事项

1）凡本公司出厂的产品，均符合相应规格书的电参数和外形尺寸要求；对于客户有特殊要求的产品 双方应签订相关技术协议。

2）在安装时，要注意减少机械应力的产生，防止由此引起的产品失效；避免靠近发热元件；焊接上锡时要注意控制温度和时间。