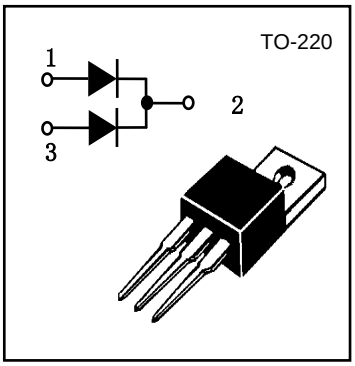
sapcon®

S10C60C

肖特基势垒二极管/SCHOTTKY BARRIER DIODE

APPLICATIONS

- High efficiency switch mode power supplies
- Free wheeling diodes.polarity protection application



FEATURES

- Common cathode structure
- Low power loss,high efficiency
- High Operating Junction Temperature.
- Guard ring for overvoltage protection, High reliability
- ROHS product

绝对最大额定值 ABSOLUTE RATINGS(Tc=25℃)

项目 Parameter		符号 SYMBOL	数 值 Value	单位 UNIT
最大反向重复峰值电压 Repetitive peak reverse voltage		VRRM	60	V
最大直流阻断电压 Maximum DC blocking voltage		VDC	60	V
正向平均整流电流 Average forward current	整个器件 per device	IF(AV)	10	A
	单侧 per diode		5	
正向峰值浪涌电流 Surge non repetitive forward current		IFSM	150	A
最高结温 Maximum junction temperature		TJ	150	℃
存储温度 Storage temperature range		TSTG	-40～+150	℃

电特性 Electronic Character istics (Tc=25℃)

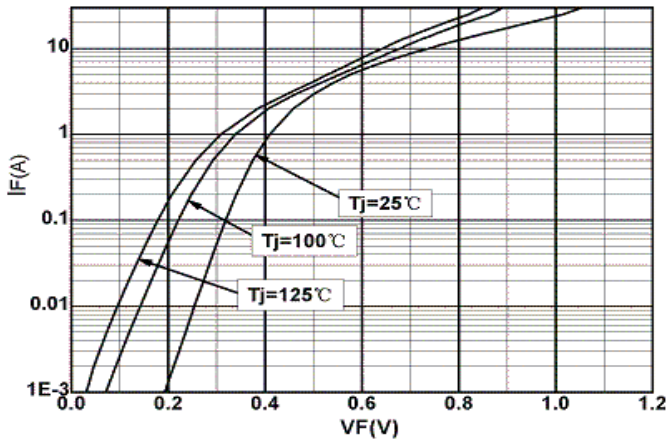
项目 Parameter	测试条件 Tests conditions		最小值 Value(min)	典型值 Value(typ)	最大值 Value(max)	单位 UNIT
IR	TJ=25℃	VR=VRRM			50	uA
	TJ=125℃				50	mA
VF	TJ=25℃	IF=5A		0.6	0.7	V
	TJ=125℃			0.53	0.6	V

热特性 THERMAL CHARACTERISTICS

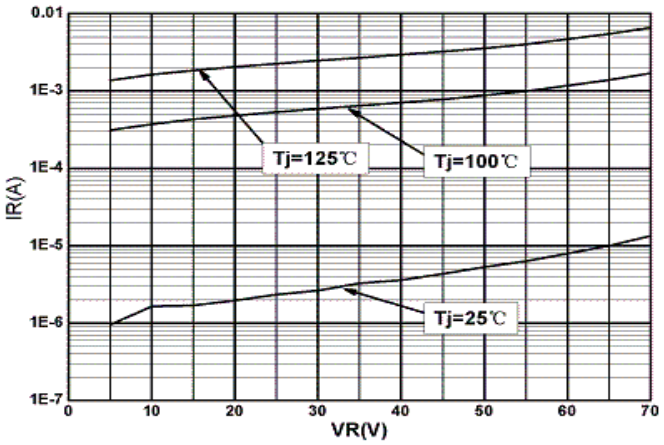
项 目 Parameter	符 号 Symbol	最小值 Value(min)	最大值 Value(max	单 位 Unit
结到管壳的热阻 Thermal resistance from junction to case	Rth(j-c)		1.9	℃/W

特性曲线 ELETRICAL CHARACTERISTICS(CURVES)

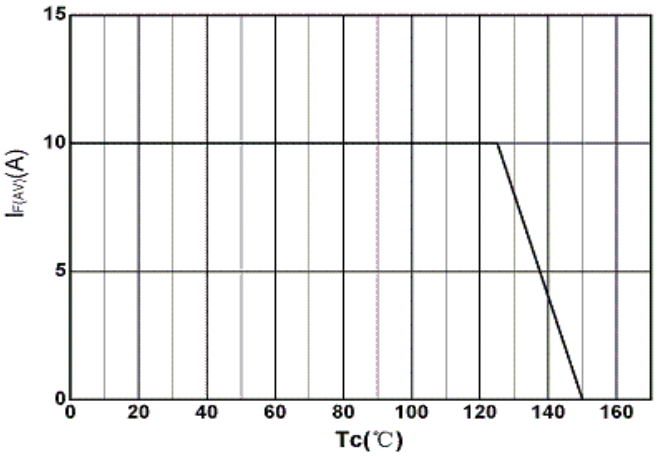
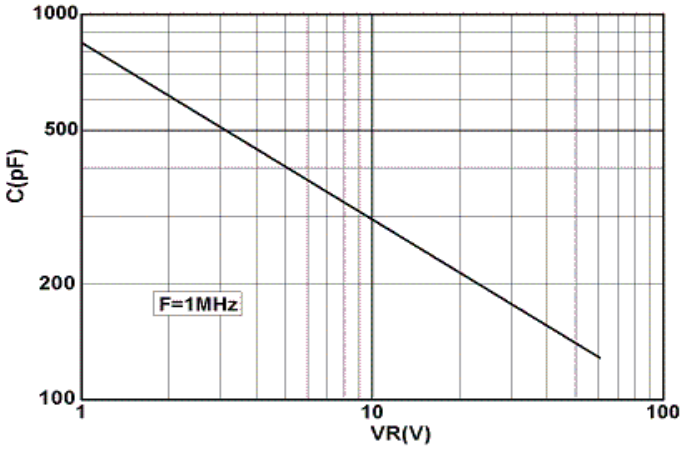
IF vs VF



IR vs VR



IF(AV) vs TC



CT vs VR