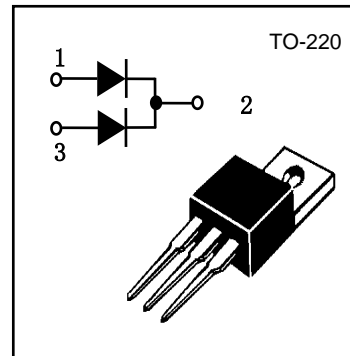


#### APPLICATIONS

- 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



#### ABSOLUTE RATINGS(Tc=25 °C)

Parameter		SYMBOL	Value	UNIT
Repetitive peak reverse voltage		VRRM	45	V
Maximum DC blocking voltage		VDC	45	V
Average forward current	per device	IF(AV)	10	A
	per diode		5	
Surge non repetitive forward current		IFSM	80	A
Maximum junction temperature		TJ	150	°C
Storage temperature range		TSTG	-40~+150	°C

#### Electronic Character istics (Tc=25 °C)

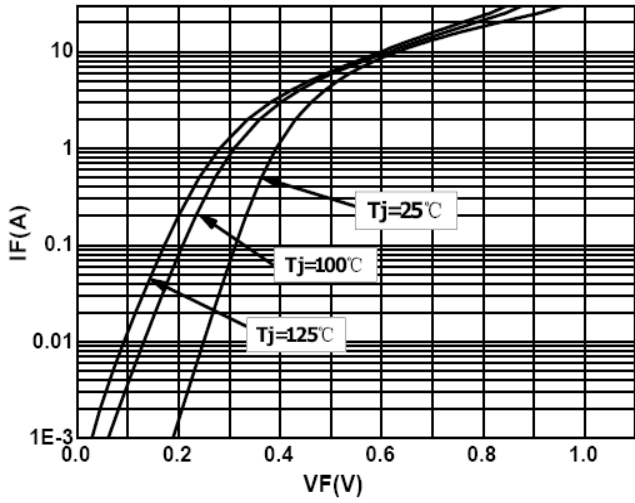
Parameter	Tests conditions		Value (min)	Value (typ)	Value (max)	UNIT
IR	TJ=25°C	VR=VRRM			50	uA
	TJ=125°C				50	mA
VF	TJ=25°C	IF=5A		0.52	0.58	V
	TJ=125°C				0.48	V

#### THERMAL CHARACTERISTICS

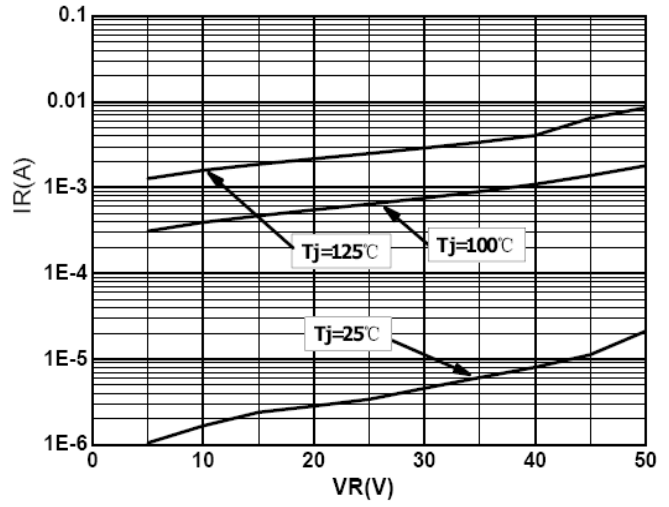
Parameter	Symbol	Value (min)	Value (max)	Unit
Thermal resistance from junction to case	Rth(j-c)		1.9	°C/W

ELETRICAL CHARACTERISTICS(CURVES)

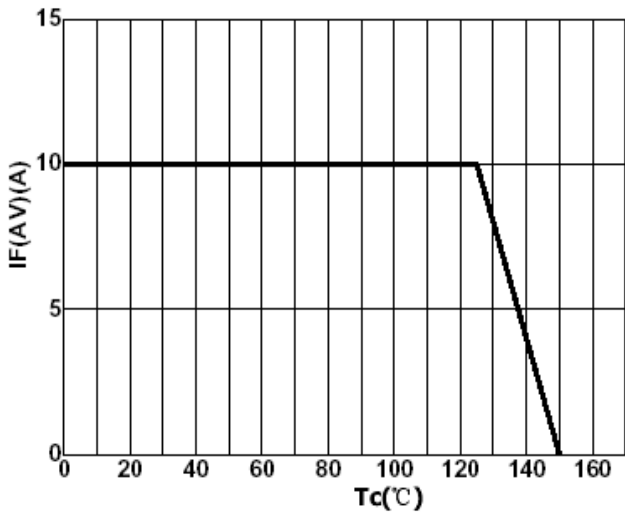
IF vs VF



IR vs VR



IF(AV) vs Tc



CT vs VR

