



## Plastic-Encapsulate Transistors

## ■ Features

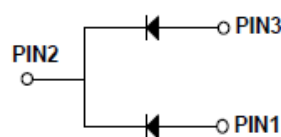
- High efficiency.
- Soft recovery characteristics.
- Beautiful High Temperature Character.
- High Reliability.
- RoHs Product.

## ■ Applications

- High voltage high frequency switching mode power supplies.
- High voltage high frequency power factor correctors.

## ■ External and internal structure

TO-247AB



## ■ Marking MUR3020PT

## ■ Maximum Ratings

Item	Symbol	Unit	Conditions	Data
Maximal Inverted Repetitive Peak Voltage	VRRM	V		200
*Average Rectified Forward Current	IFAV	A	Rated VR-20Khz Square Wave - 50% duty cycle	30
MAX. Reverse Recovery Time	TRR	nS	IF=0.5A IR=1.0A IREC=0.25A	35
Typical Thermal Resistance Package =TO-247AB (per leg)	RθJc	°C/W		0.5
Forward Peak Surge Current	IFSM	A	Rated Load 8.3 Half Mssine Wave-According to JEDEC Method	200
Maximum Rate of Voltage Change ( at Rated VR )	dv/dt	V/uS		10000
Operating Junction Temperature	TJ	°C		-40- +150
Storage Temperature	TSTG	°C		-40- +150

\*IF(AV)= 15A×2

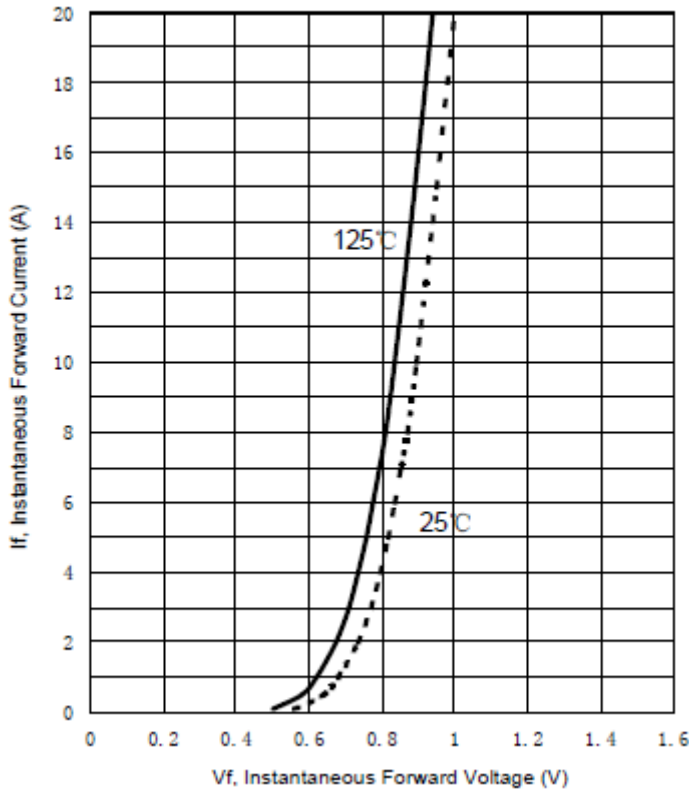
## ■ Electrical Characteristics

Item	Test Condition		TYP.	MAX.	Unit
IR	TJ =25°C	VR=VRRM		0.05	mA
	TJ =125°C			25	mA
VF	TJ =25°C	IF=15A	1.0	1.2	V
	TJ =125°C	IF=15A		0.9	V

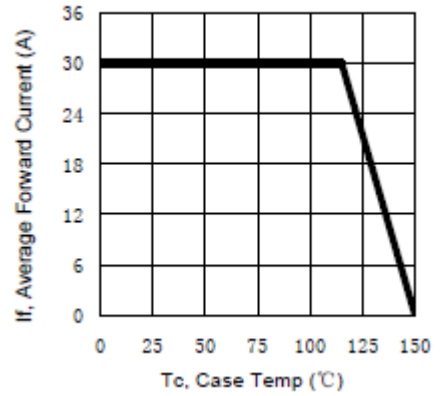


■ Characteristics (Typical)

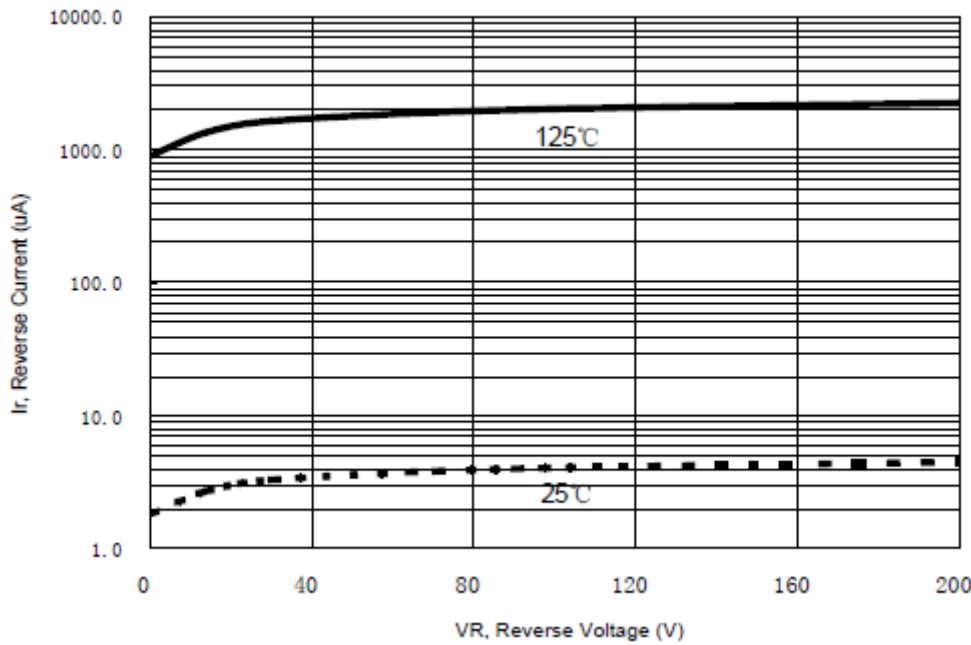
The forward voltage and forward current curve



Current derating curve, per element

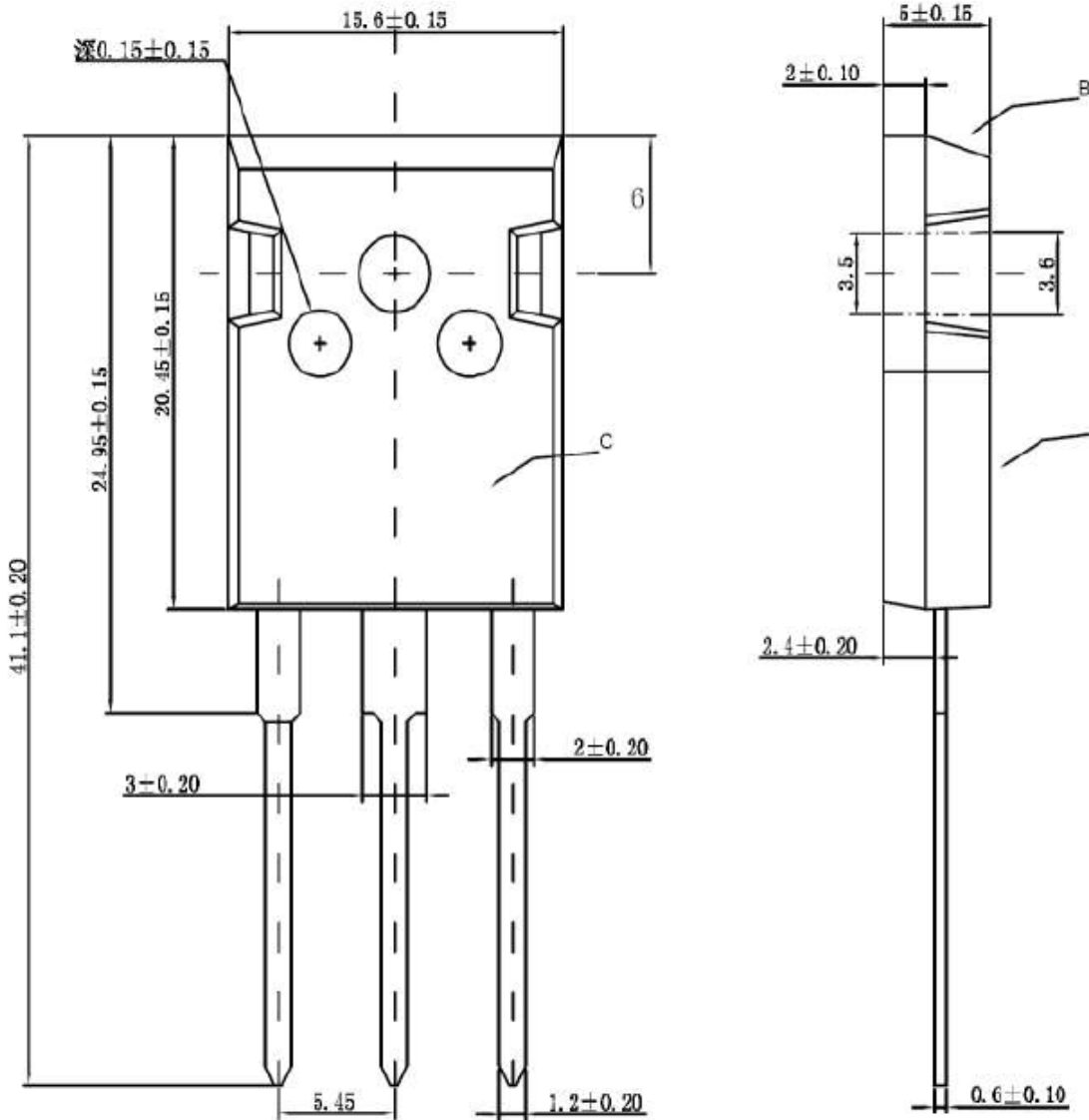


The reverse leak current and the reverse voltage (single-device) curve.





## ■ Plastic surface mounted package

**TO-247AB**

## ■ Packing Information

Device	Package	Shipping
MUR3020PT	TO-247AB	30 pieces / tube