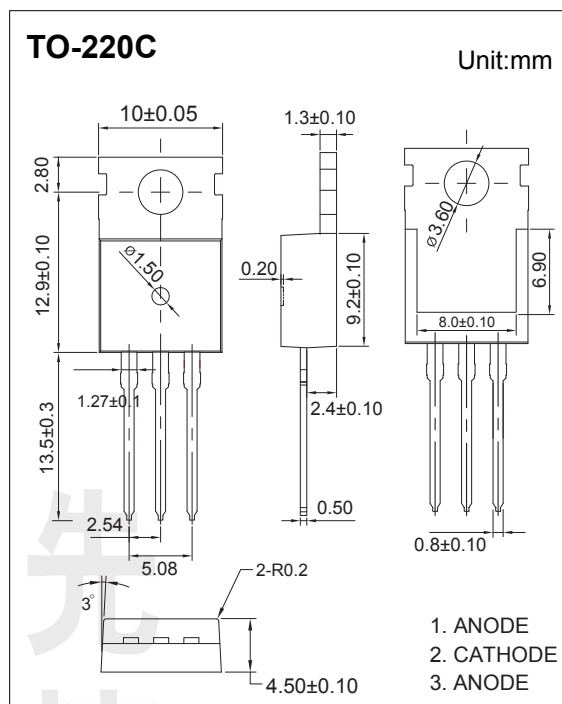


Schottky Barrier Rectifier MBR2030CT~MBR2060CT

■ Features

- Schottky Barrier Chip
- Guard Ring Die Construction for Transient Protection
- Low Power Loss, High Efficiency
- High Surge Capability
- High Current Capability and Low Forward Voltage Drop
- Free wheeling, and polarity protection applications.
- For use in low voltage, high frequency inverters
- For Use in Low Voltage, High Frequency Inverters, Free Wheeling, and Polarity Protection Applications



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	MBR 2030CT	MBR 2035CT	MBR 2040CT	MBR 2045CT	MBR 2050CT	MBR 2060CT	Unit
Repetitive peak reverse voltage	V _{RRM}	30	35	40	45	50	60	V
Working peak reverse voltage	V _{RWM}							
DC blocking voltage	V _R							
RMS reverse voltage	V _{R(RMS)}	21	24.5	28	31.5	35	42	
Average rectified output current @T _c =125°C	I _O	20						A
Non-Repetitive peak forward surge current	I _{FSM}	150						
Power dissipation	P _D	2						W
Thermal resistance junction to ambient	R _{thA}	50						K/W
Junction temperature	T _J	125						°C
Storage temperature	T _{STG}	-55 to 150						

Schottky Barrier Rectifier MBR2030CT~MBR2060CT

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit	
Reverse breakdown voltage	MBR2030CT	V _(BR) I _R =0.1mA	30			V	
	MBR2035CT		35				
	MBR2040CT		40				
	MBR2045CT		45				
	MBR2050CT		50				
	MBR2060CT		60				
Forward voltage	V _F	I _F =10A			0.7		
					0.8		
Reverse voltage leakage curren	MBR2030CT	I _R	V _R =30V			0.1	mA
	MBR2035CT		V _R =35V				
	MBR2040CT		V _R =40V				
	MBR2045CT		V _R =45V				
	MBR2050CT		V _R =50V				
	MBR2060CT		V _R =60V				

Schottky Barrier Rectifier MBR2030CT~MBR2060CT

■ Typical Characteristics

