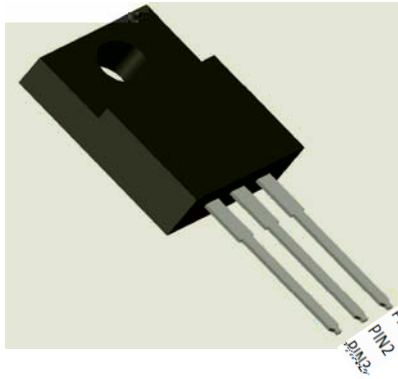


## Schottky Diodes

### Features

- High frequency operation
- Low forward voltage drop
- High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- Guard ring for enhanced ruggedness and long term reliability
- Solder dip 275 °C max. 7 s, per JESD 22-B106



### Typical Applications

Typical applications are in switching power supplies, converters, freewheeling diodes, and reverse battery protection.

### Mechanical Data

**Package:** ITO-220AB

Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant

**Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102

**Polarity:** As marked

### Maximum Ratings (T<sub>j</sub>=25 °C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	MBRL2060FCT
Device marking code			MBRL2060FCT

Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	V	60
		@1ms square wave, 1 time, T <sub>j</sub> =25	

Current Squared Time @1ms t 8.3ms T <sub>j</sub> =25	I <sup>2</sup> t	A <sup>2</sup> s	94
Typical junction capacitance @ 1MHz and Applied Reverse Voltage of 4.0 V.D.C.	C <sub>j</sub>	pF	850
Storage Temperature	T <sub>stg</sub>		-55 ~ +150
Junction Temperature	T <sub>j</sub>		-55 ~ +150
Dielectric strength @ terminals to case, AC 1 minute	V <sub>dis</sub>	KV	2.0
Mounting torque @ recommend torque 5kg cm	Tor	kg cm	8



# MBRL2060FCT

## Electrical Characteristics $T_j=25$ Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	Min	Typ	Max
Peak Forward Voltage	$V_{FM}$	V	$I_{FM}=10.0A$ $T_j=25$	0.5	0.57	0.60
			$I_{FM}=10.0A$ $T_j=125$	-	0.54	0.58
Maximum DC reverse current at rated DC blocking voltage per diode	$I_{RRM1}$	uA	$V_{RM}=V_{RRM}$ $T_j=25$	-	-	100
	$I_{RRM2}$	mA	$V_{RM}=V_{RRM}$ $T_j=125$	-	-	20

Note1:Pulse test:300uS pulse width,1% duty cycle

Note2:Pulse test:pulse width 40mS

## Thermal Characteristics $T_j=25$ Unless otherwise specified

PARAMETER



**Outline Dimensions**

<b>ITO-220AB</b>		
Dim	Min	Max
A	9.8	10.2
B	2.25	2.75
C	2.95	3.45
D	14.75	15.25
E	3.05	3.95
F	0.45	0.75
G	0.45	0.75
H		



# MBRL2060FCT

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## Disclaimer

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The product listed herei