

MBR3060CL

LOW VF SCHOTTKY RECTIFIER

VOLTAGE 60 Volt **CURRENT** 30 Ampere

FEATURES

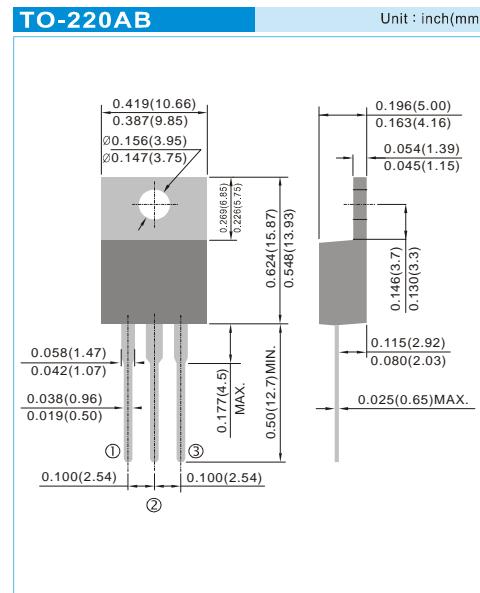
- Extreme low forward voltage drop, low power loss
- High efficiency operation
- Lead free in compliance with EU RoHS 2011/65/EU directive

MECHANICAL DATA

Case : TO-220AB, Plastic

Terminals : Solderable per MIL-STD-750, Method 2026

Weight: 0.067 ounces, 1.89 grams.



MAXIMUM RATINGS(T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage	V _{RRM}	60	V
Maximum average forward rectified current per diode per device	I _{F(AV)}	15 30	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	250	A
Typical thermal resistance per diode (Note 1)	R _{θJC}	2	°C/W
Operating junction temperature range	T _J	-55 to +150	°C
Storage temperature range	T _{STG}	-55 to +150	°C

Note : 1. Mounted on infinite heatsink.

ELECTRICAL CHARACTERISTICS(T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
Breakdown voltage per diode	V _{BR}	I _R =1mA	60	-	-	V
Instantaneous forward voltage per diode	V _F	I _F =3A I _F =7.5A I _F =15A T _J =25°C	-	0.33 0.41 0.51	- - 0.56	V
		I _F =3A I _F =7.5A I _F =15A T _J =125°C	-	0.25 0.37 0.51	- - -	V
		V _R =48V	-	100	-	μA
	I _R	V _R =60V T _J =25°C T _J =125°C	-	0.15 26	0.5 -	mA mA

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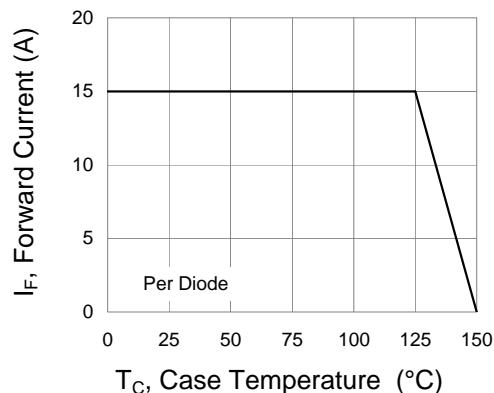


Fig.1 Forward Current Derating Curve

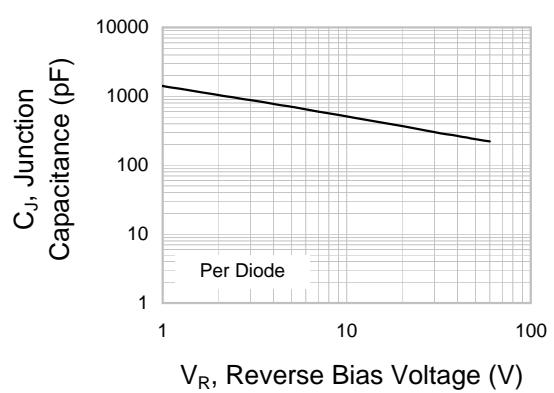


Fig.2 Typical Junction Capacitance

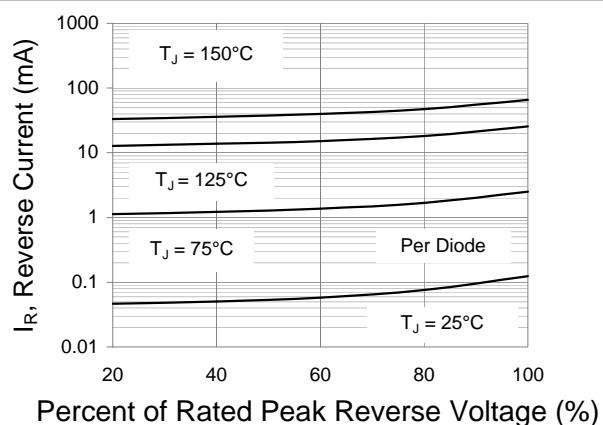


Fig.3 Typical Reverse Characteristics

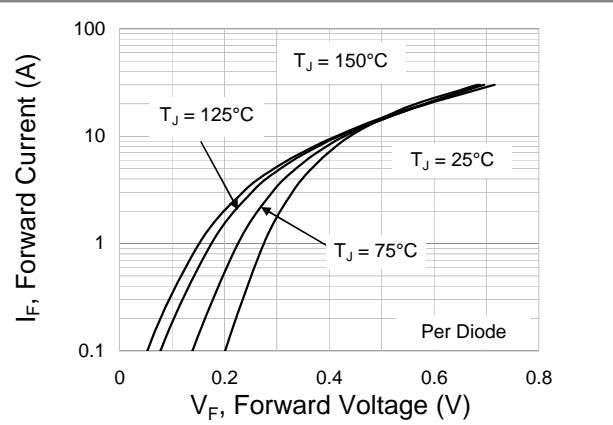


Fig.4 Typical Forward Characteristics