



SB3060LDC

LOW VF SCHOTTKY RECTIFIER

VOLTAGE 60 Volts **CURRENT** 30 Amperes

FEATURES

- Low forward voltage drop, low power losses
- High efficiency operation
- In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

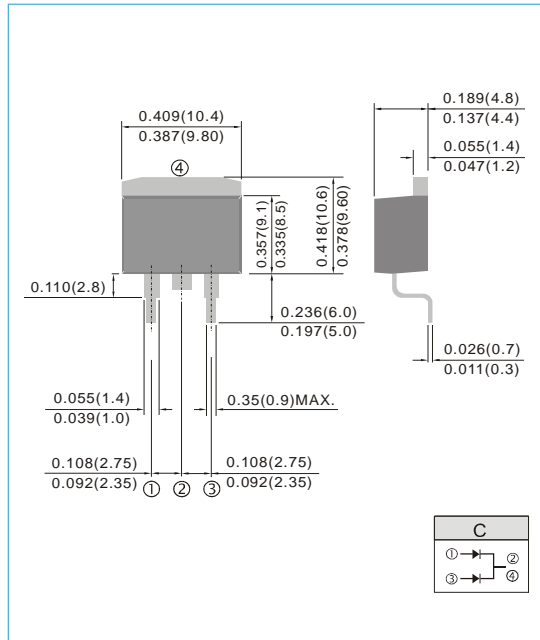
Case : TO-263, Plastic

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

Weight: 0.0514 ounces, 1.46 grams

TO-263 / D²PAK

Unit : inch(mm)



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	I _{F(AV)}	30 15	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	250	A
Typical thermal resistance	R _{θJA} R _{θJC}	50 4.0	°C/W
Operating junction temperature range	T _J	-55 to + 125	°C
Storage temperature range	T _{STG}	-55 to + 150	°C

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 =5A I _F =7.5A I _F =15A T _J =25°C	-	0.40 0.43 0.51	- - 0.60	V
		I _F =5A I _F =7.5A I _F =15A T _J =125°C	-	0.30 0.35 0.47	- - 0.52	V
		Reverse current per diode	I _R	V _R =48V	-	80
Reverse current per diode	I _R	V _R =60V T _A =25°C	-	200	480	μA
		V _R =60V T _A =100°C	-	30	100	mA



SB3060LDC

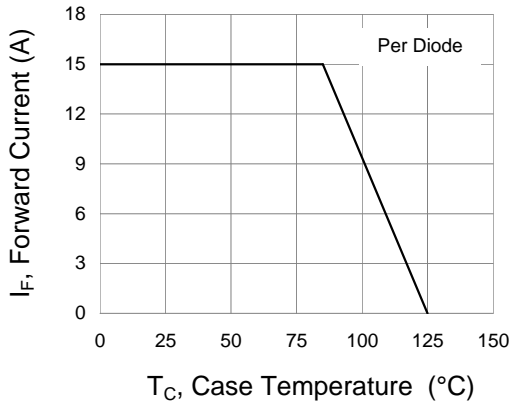


Fig.1 Forward Current Derating Curve

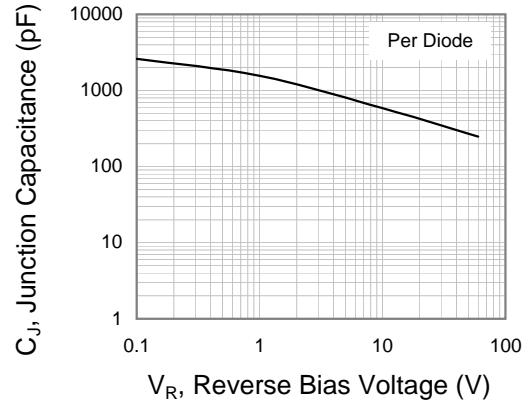


Fig.2 Typical Junction Capacitance

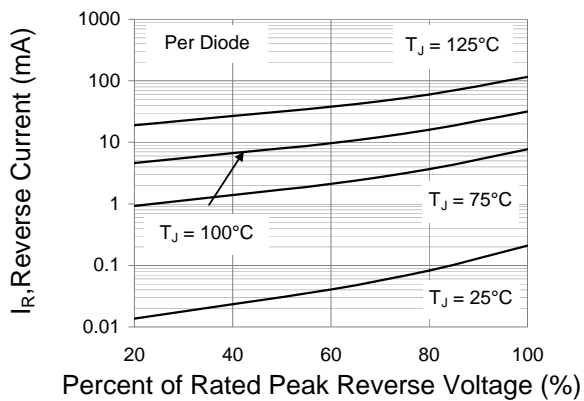


Fig.3 Typical Reverse Characteristics

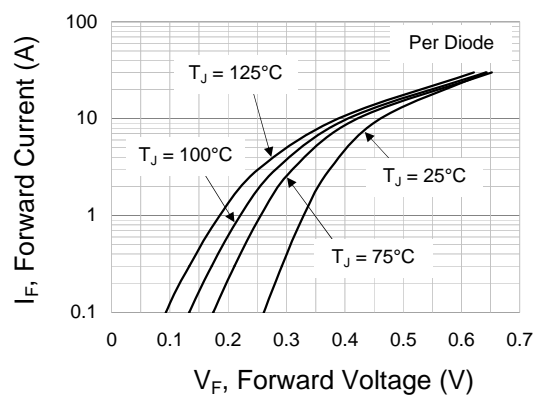


Fig.4 Typical Forward Characteristics