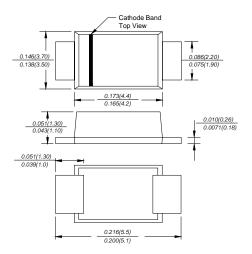


S5ABF THRU S5MBF

SURFACE MOUNT GENERAL PURPOSE SILICON RECTIFIER

Reverse Voltage - 50 to 1000 Volts Forward Current - 5.0 Amperes

SMBF



Dimensions in inches and (millimeters)

FEATURES

- For surface mounted applications
- ◆ Low profile package
- Glass Passivated Chip Junction
- Easy to pick and place
- ◆ Lead free in comply with EU RoHS 2011/65/EU diretives

MECHANICAL DATA

Case: JEDEC SMBF molded plastic body **Terminals**: leads solderable per MIL-STD-750,

Method 2026

Mounting Position: Any Weight:57mg/0.002oz

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz,resistive or inductive load,for capacitive load current derate by 20%.

MDD Catalog Number	SYMBOLS	S5ABF	S5BBF	S5DBF	S5GBF	S5JBF	S5KBF	S5MBF	UNITS
Marking code		S5AB	S5BB	S5DB	S5GB	S5JB	S5KB	S5MB	
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified current at TL=65°C	I(AV)	5.0							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	Ігѕм	125							Amps
Maximum instantaneous forward voltage at 5.0A	VF	1.1							Volts
Maximum DC reverse current Ta=25℃ at rated DC blocking voltage Ta=125℃	lr	5.0 150.0							μΑ
Typical junction capacitance (NOTE 1)	Сı	45							pF
Typical thermal resistance (NOTE 2)	RθJA	40							°C/W
Operating junction and storage temperature range	ТЈ,Тѕтс	-55 to +150							°C

Note: 1.Measured at 1MHz and applied reverse voltage of 4.0V D.C. 2.P.C.B. mounted with 0.5x0.5"(12.7x12.7mm) copper pad areas



RATINGS AND CHARACTERISTIC CURVES S5ABF THRU S5MBF

Fig.1 Forward Current Derating Curve

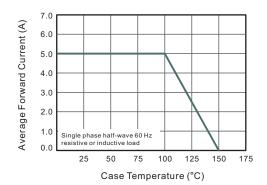


Fig.2 Typical Reverse Characteristics

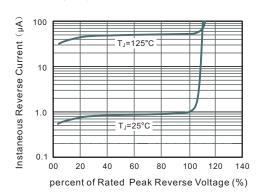


Fig.3 Typical Forward Characteristic

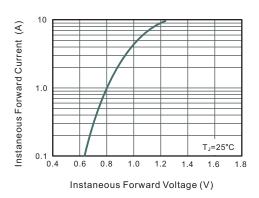


Fig.4 Typical Junction Capacitance

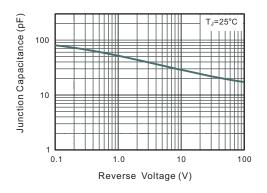
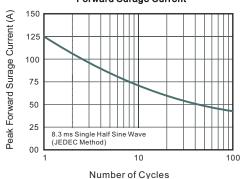


Fig.6 Maximum Non-Repetitive Peak Forward Surage Current



The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!

