



ULTRA LOW VF SCHOTTKY RECTIFIER

VOLTAGE 60 Volt CURRENT 10 Ampere

FEATURES

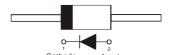
- Ultra low forward voltage drop, low power loss
- · High efficiency operation
- Lead free in compliance with EU RoHS 2011/65/EU directive

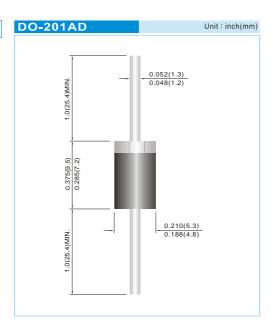
MECHANICAL DATA

Case: Molded plastic, DO-201AD

Terminals: Axial leads, solderable per MIL-STD-750, Method 2026

Polarity : Color band denotes cathode end Approx weight : 0.0402 ounces, 1.142 grams





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

PARAMETER		SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage		VRRM	60	V
Maximum rms voltage		VRMS	42	V
Maximum dc blocking voltage		VR	60	V
Maximum average forward rectified current		I F(AV)	10	А
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load		I FSM	120	А
Typical junction capacitance (V _R =4V, f=1MHz)		Cı	490	pF
Typical thermal resistance	(Note 1) (Note 2)	Røja Røjl	60 22	°C/W
Operating junction temperature range		TJ	-55 to + 150	°C
Storage temperature range		Тѕтс	-55 to + 150	°C

Note: 1.The testing condition of the thermal resistance (junction to ambient) is based on 10 mm lead length between mini copper pad.

2. The testing condition of the thermal resistance (junction to lead) is based on 10 mm lead length between two $10 \, \text{cm} \times 10 \, \text{cm} \times 0.5 \, \text{mm}$ copper pad.





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

PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Breakdown voltage	VBR	I R=0.5mA	TJ=25°C	60	-	-	V
Instantaneous forward voltage	VF	I F=1A I F=5A I F=10A	T _J =25°C	- - -	0.3 0.4 0.49	- - 0.54	V
		I F=1A I F=5A	TJ=125°C	-	0.21 0.36	-	V
Reverse current	l R	VR=42V	TJ=25°C	-	40	-	μΑ
		VR=60V	TJ=25°C TJ=125°C	-	- 15	220	μA mA

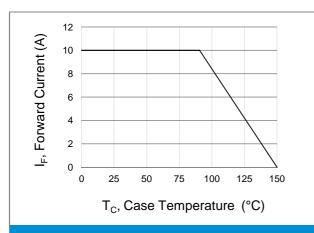


Fig.1 Forward Current Derating Curve

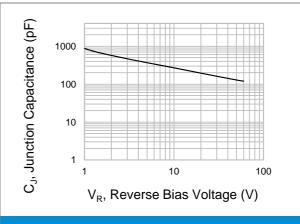


Fig.2 Typical Junction Capacitance

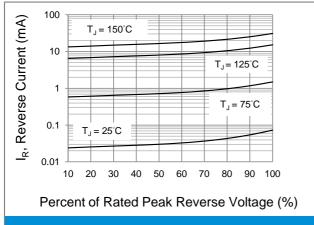


Fig.3 Typical Reverse Characteristics

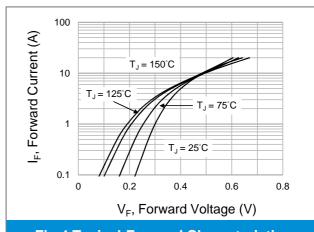


Fig.4 Typical Forward Characteristics





Part No_packing code_Version

SBM1060LSS_AY_00001

SBM1060LSS_AY_10001

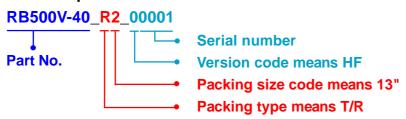
SBM1060LSS_B0_00001

SBM1060LSS_B0_10001

SBM1060LSS_R2_00001

SBM1060LSS_R2_10001

For example:



Packing Code XX					Version Code XXXXX			
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code		
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number		
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number		
Bulk Packing (B/P)	В	13"	2					
Tube Packing (T/P)	Т	26mm	X					
Tape and Reel (Right Oriented) (TRR)	s	52mm	Y					
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U					
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D					





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