

Technical Data Data Sheet N0876, Rev. - Green Products

SB2060

SB2060 SCHOTTKY RECTIFIER

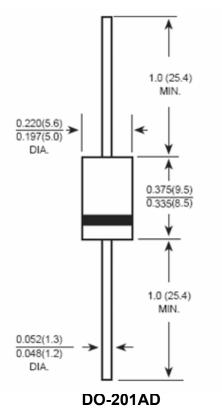
Applications:

- Switching power supply
- Converters
- Free-Wheeling diodes
- Reverse battery protection
- Disk drives
- Battery charging

Features:

- Schottky Barrier Chip
- Ideally Suited for Automatic Assembly
- Low Power Loss, High Efficiency
- Surge Overload Rating to 50A Peak
- For Use in Low Voltage Application
- Guard Ring Die Construction
- Plastic Case Material has UL Flammability
- Classification Rating 94V-O
- Green Products in Compliance with the RoHS Directive
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Mechanical Dimensions: In Inches / mm

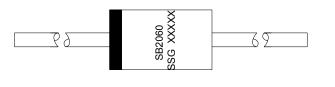




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Marking Diagram:



Where XXXXX is YYWWL

SB	= Device Type
20	= Forward Current (20A)
60	= Reverse Voltage (60V)
SSG	= SSG
YY	= Year
WW	= Week
L	= Lot Number

Cautions : Molding resin Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping
SB2060	DO-201AD	1250 pag / Tapa
SB2060	(Pb-Free)	1250 pcs / Tape

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.



Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	SB2060	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	60	V
Maximum RMS Voltage	V _{RMS}	42	V
Average Rectified Output Current (Note 1) @T _c = 135°C	I _{F(AV)}	20	А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	300	А
Forward Voltage $@I_F = 20A, T_A = 25^{\circ}C$ $@I_F = 20A, T_A = 125^{\circ}C$	V_{FM}	0.70 0.60	V
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 125^{\circ}C$	I _{RM}	1 40	mA
Typical Thermal Resistance Junction to Case	$R_{ extsf{ heta}JC}$	2	°C /W
Storage Temperature Range	T _{STG,} T _J	-55 to +150	°C
Approximate Weight	wt	1.02	g
Case Style		DO-201AD	1

Note:1. Mount on Cu-Pad Size 5mm × 5mm on P.C.B.



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