

SBL3045CT

30A SCHOTTKY BARRIER RECTIFIER

NOT RECOMMENDED FOR NEW DESIGNS USE MBR3045CT

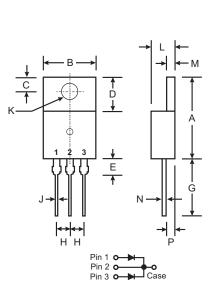
- Guard Ring Die Construction for Transient Protection
- Low Power Loss, High Efficiency
- High Surge Capability

Features

- High Current Capability and Low Forward Voltage Drop
- For Use in Low Voltage, High Frequency Inverters, Free Wheeling, and Polarity Protection Applications
- Lead Free Finish, RoHS Compliant (Note 3)

Mechanical Data

- Case: TO-220AB
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020C
- Terminals: Finish Bright Tin. Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Body
- Marking: Type Number
- Weight: 2.24 grams (approx.)



TO-220AB				
Dim	Min	Max		
Α	14.48	15.75		
В	10.00	10.40		
С	2.54	3.43		
D	5.90	6.40		
Е	2.80	3.93		
G	12.70	14.27		
н	2.40	2.70		
J	0.69	0.93		
к	3.54	3.78		
L	4.07	4.82		
М	1.15	1.39		
Ν	0.30	0.50		
Р	2.04	2.79		
All Dimensions in mm				

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		Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	45	V
RMS Reverse Voltage	V _{R(RMS)}	32	V
Average Rectified Output Current (Note 1)	Ι _Ο	30	Α
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	250	А
Forward Voltage Drop @ $I_F = 15A$, $T_C = 25^{\circ}C$	VFM	0.55	V
$ \begin{array}{llllllllllllllllllllllllllllllllllll$		1.0 75	mA
Typical Total Capacitance (Note 2)	Ст	450	pF
Typical Thermal Resistance Junction to Case (Note 1)		1.5	°C/W
Operating Temperature Range		-55 to +125	°C
Storage Temperature Range		-55 to +150	°C

Notes: 1. Thermal resistance junction to case mounted on heatsink.

2. Measured at 1.0MHz and Applied Reverse Voltage of 4.0V DC.

3. RoHS revision 13.2.2003. Glass and High Temperature Solder Exemptions Applied, see EU Directive Annex Notes 5 and 7.

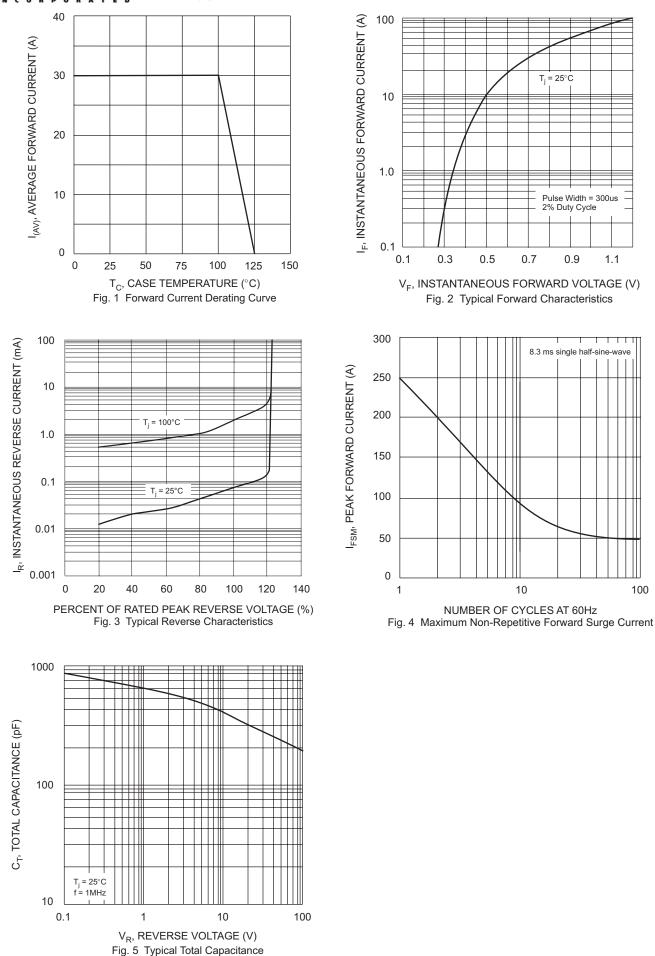
Ordering Information (Note 4)

Devic	e	Packaging	Shipping
SBL304	5CT	TO-220AB	50/Tube

Notes: 4. For Packaging Details, go to our website at http://www.diodes.com/datasheets/ap02007.pdf.



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