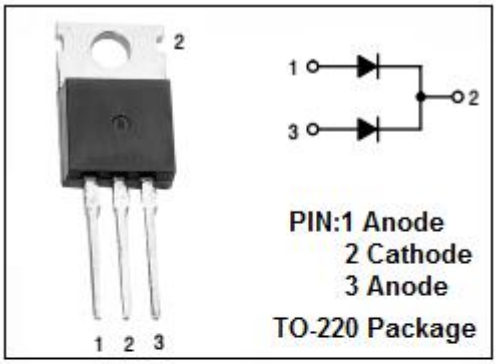
Schottky Barrier Rectifier — SBT10100UFCT

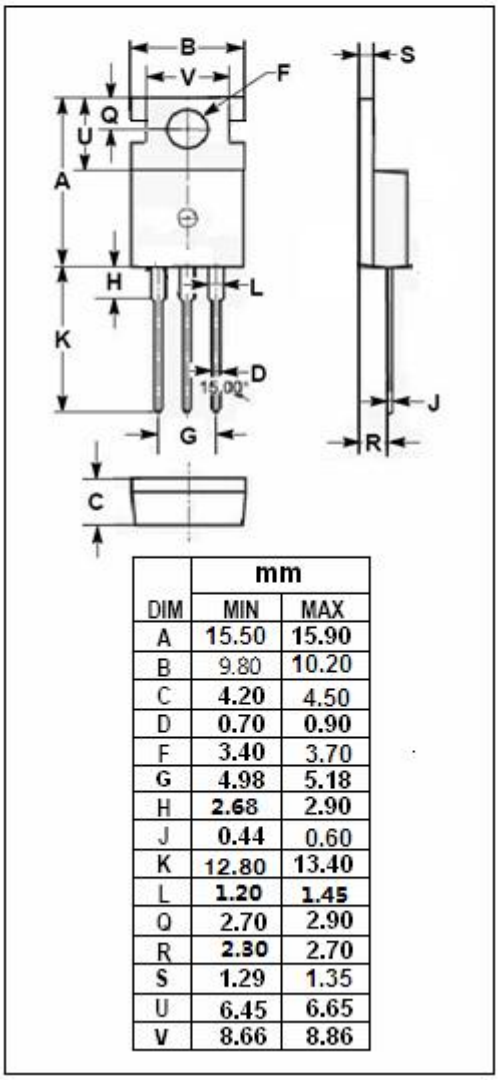
FEATURES

- Ideal for automated placement
- 150℃ Operating Junction Temperature
- Low Power Loss
- High Efficiency
- Low Stored Charge Majority Carrier Conduction
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



MECHANICAL CHARACTERISTICS

- Case: Molded plastic
- Finish: All External Surfaces Corrosion Resistant and Terminal Leads are Readily Solderable



DIM	mm MIN	mm MAX
A	15.50	15.90
B	9.80	10.20
C	4.20	4.50
D	0.70	0.90
F	3.40	3.70
G	4.98	5.18
H	2.68	2.90
J	0.44	0.60
K	12.80	13.40
L	1.20	1.45
Q	2.70	2.90
R	2.30	2.70
S	1.29	1.35
U	6.45	6.65
V	8.66	8.86

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{RRM} V_R	Peak Repetitive Reverse Voltage DC Blocking Voltage	100	V
V_{RMS}	RMS Voltage	70	V
$I_{F(AV)}$	Average Rectified Forward Current (Rated V_R) T_C= 100℃	10	A
I_{FSM}	Non-repetitive Peak Surge Current (Surge applied at rated load conditions half-wave, single phase, 60Hz)	120	A
T_J	Junction Temperature	-55~150	℃
T_{stg}	Storage Temperature Range	-55~150	℃

Schottky Barrier Rectifier SBT10100UFCT

ELECTRICAL CHARACTERISTICS (Pulse Test: Pulse Width=300 μ s,Duty Cycle≤2%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V_F	Maximum Instantaneous Forward Voltage	I_F= 5A ; T_C= 25℃	0.8	V
		I_F= 5A ; T_C= 125℃	0.7	V
I_R	Maximum Instantaneous Reverse Current	Rated DC Voltage, T_C= 25℃	0.1	mA
		Rated DC Voltage, T_C= 125℃	15	mA

NOTICE：
ISC reserves the rights to make changes of the content herein the datasheet at any time without notification. The information contained herein is presented only as a guide for the applications of our products.
ISC products are intended for usage in general electronic equipment. The products are not designed for use in equipment which require specialized quality and/or reliability, or in equipment which could have applications in hazardous environments, aerospace industry, or medical field. Please contact us if you intend our products to be used in these special applications.
ISC makes no warranty or guarantee regarding the suitability of its products for any particular purpose, nor does ISC assume any liability arising from the application or use of any products, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages.