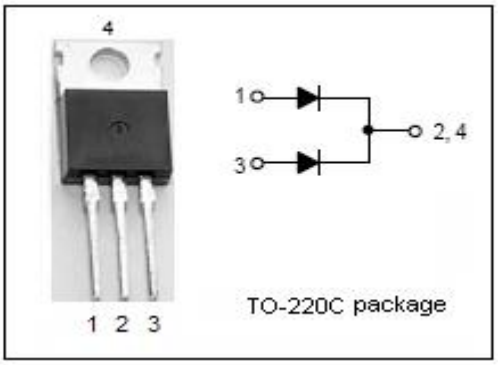
Schottky Barrier Rectifier — DSA30C150PB

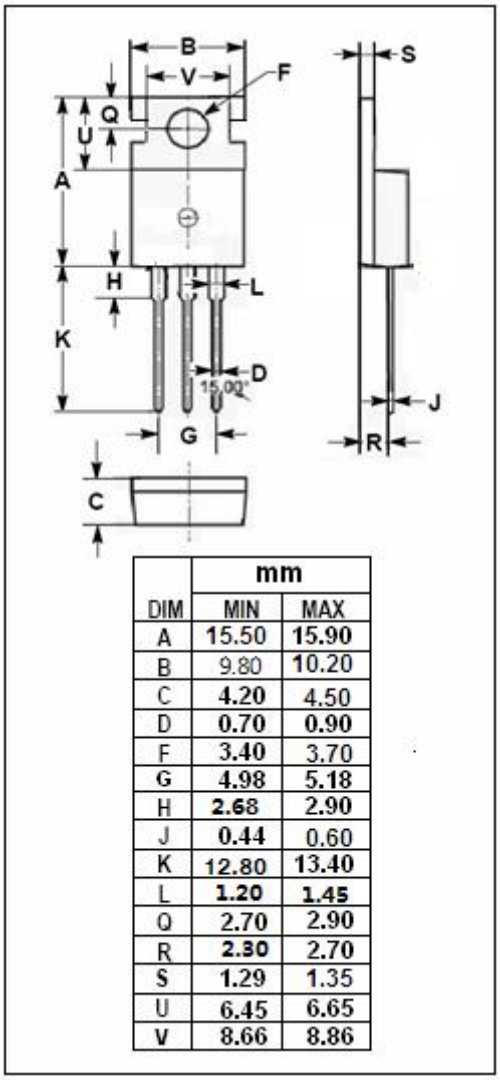


FEATURES

- Dual Rectifier Conduction, Positive Center Tap
- Low Power Loss/High Efficiency
- High Current Capability, Low Forward Voltage Drop
- High Surge Capacity
- Guarding for Overvoltage protection
- For AC/DC switching adaptor and other switching power supply applications.
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

MECHANICAL CHARACTERISTICS

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



DIM	mm MIN	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}	Peak Repetitive Reverse Voltage	150	V
$I_{F(AV)}$	Average Rectified Forward Current T_C= 100℃	30	A
I_{FSM}	Nonrepetitive Peak Surge Current 8.3ms single half sine-wave superimposed on rated load conditions	330	A
T_J	Junction Temperature	150	℃
T_{stg}	Storage Temperature Range	-55~175	℃
dv/dt	Voltage Rate of Change (Rated V_R)	10,000	V/μs

Schottky Barrier Rectifier MBR30150CT

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j\text{-}c}$	Thermal Resistance,Junction to Case	1.75	℃/W

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= 15A ; T_C= 25℃ I_F= 15A ; T_C= 125℃ I_F= 30A ; T_C= 25℃ I_F= 30A ; T_C= 125℃	0.89 0.75 1.02 0.89	V
I_R	Maximum Instantaneous Reverse Current	Rated DC Voltage, T_C= 25℃	250	uA

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