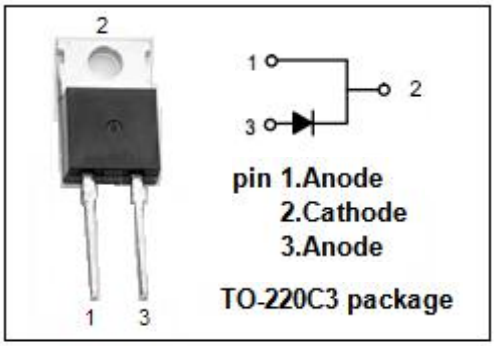
SiC Schottky Barrier Diode

TRS10A65F

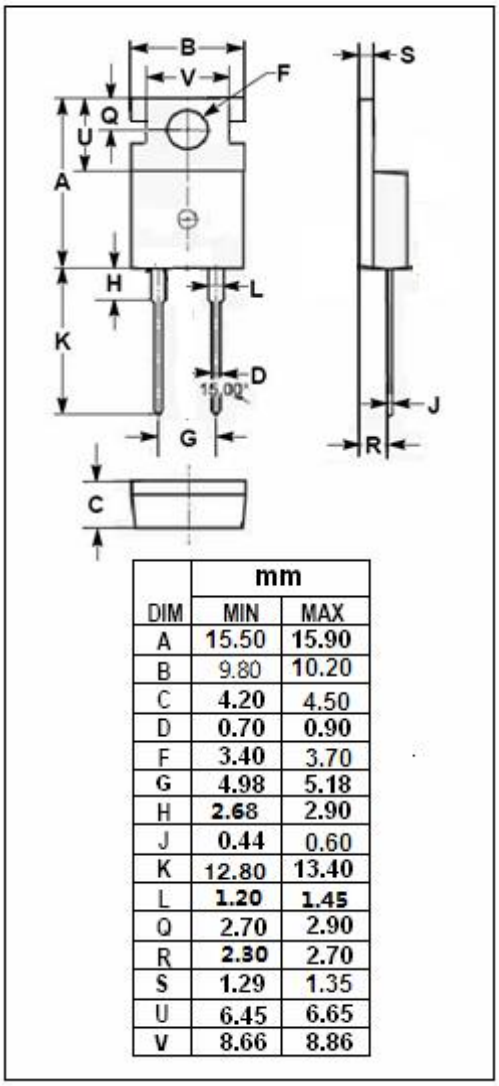
FEATURES

- Forward DC current
  $I_{F(DC)}$ = 10 A
- Repetitive peak reverse voltage
  V_{RRM} = 650 V
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

- DC-DC Converters
- Uninterruptible Power Supplies
- Solar Inverters
- Power Factor Correction



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(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{RRM}	Peak Repetitive Reverse Voltage	650	V
$I_{F(DC)}$	Forward DC current	10	A
T_J	Junction Temperature	175	℃
T_{stg}	Storage Temperature Range	-55~175	℃

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j\text{-}c}$	Thermal Resistance,Junction to Case	3.92	℃/W

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ELECTRICAL CHARACTERISTICS (Pulse Test: Pulse Width=300 μ s,Duty Cycle≤1%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V_F	Maximum Instantaneous Forward Voltage	I_F= 10A ; T_J= 25℃	1.7	V
I_R	Maximum Instantaneous Reverse Current	V_R=V_{RRM}, T_J= 25℃	90	uA

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