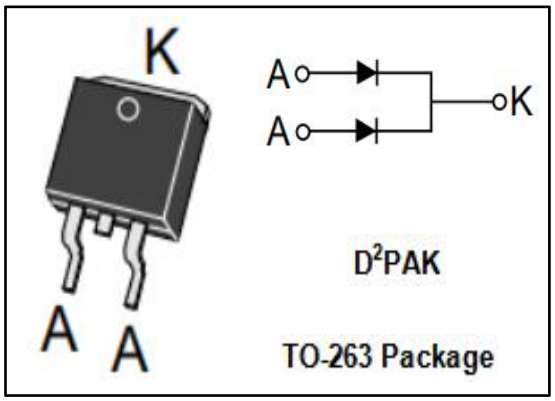
Schottky Barrier Rectifier — STPS20150CG

FEATURES

- Multilayer Metal -Silicon Potential Structure.
- Low Leakage Current.
- High Current Capability, High Efficiency.
- High Junction Temperature Capability.
- Minimum Lot-to-Lot variations for robust device performance and reliable operation.



MECHANICAL CHARACTERISTICS

- Low Voltage High Frequency Switching Power Supply.
- Low Voltage High Frequency Invers Circuit.
- Low Voltage Continued Circuit and Protection Circuit.

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{RRM} V_{RMS} V_R	Peak Repetitive Reverse Voltage RMS Voltage DC Blocking Voltage	150	V
$I_{F(AV)}$	Average Rectified Forward Current (Per Leg) (Total)	10 20	A
I_{FSM}	Nonrepetitive Peak Surge Current 8.3ms single half sine-wave superimposed on rated load conditions	180	A
P_{ARM}	Repetitive peak avalanche power tp=10us,Tj=125℃	480	W
T_J	Junction Temperature	-65~175	℃
T_{stg}	Storage Temperature Range	-65~175	℃

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j\text{-}c}$	Thermal Resistance,Junction to Case	2.2	℃/W

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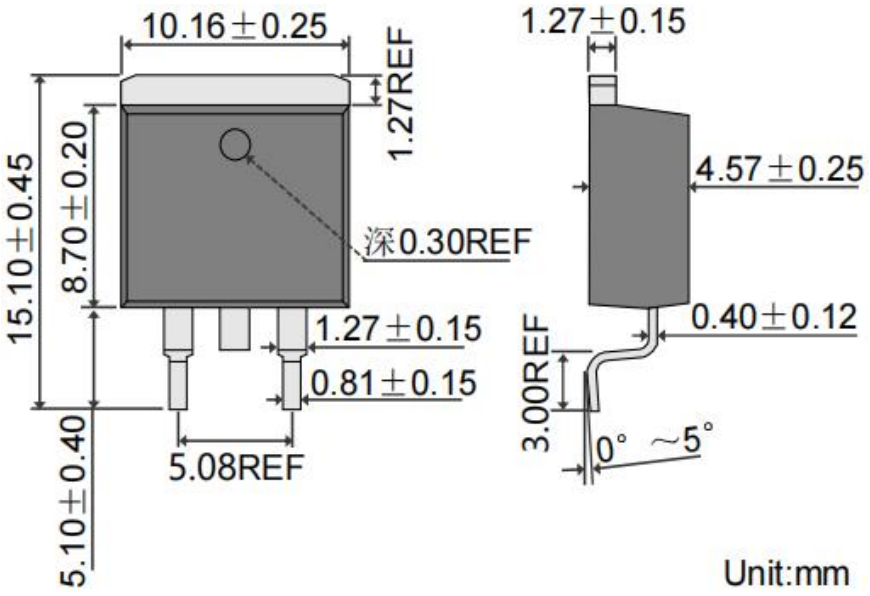
ELECTRICAL CHARACTERISTICS(Pulse Test: Pulse Width≤300 μs,Duty Cycle≤1%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V_F	Maximum Instantaneous Forward Voltage	I_F= 10A ; T_C= 25℃ I_F= 20A ; T_C= 25℃	0.9 1.0	V
I_R	Maximum Instantaneous Reverse Current	Rated DC Voltage, T_C= 25℃	5.0	uA



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