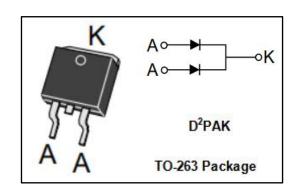


Schottky Barrier Rectifier

STPS40150CG

FEATURES

- · Guard -Ring for Stress Protection
- Low Forward Voltage
- · High Operating Junction Temperature
- · Guaranteed Reverse Avalanche
- · Low Power Loss/High Efficiency
- High surge capability
- Low Stored Charge Majority Carrier Conduction
- 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
- Lead Temperature for Soldering Purposes: 260 °C Max, for 10 Seconds.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

	(,		
SYMBOL	PARAMETER	VALUE	UNIT
VRRM	Peak Repetitive Reverse Voltage	150	V
I _{F(AV)}	Average Rectified Forward Current	40	Α
IFSM	Nonrepetitive Peak Surge Current	250	Α
TJ	Junction Temperature	175	$^{\circ}$
T _{stg}	Storage Temperature Range	-65~175	$^{\circ}$ C
dv/dt	Voltage Rate of Change (Rated V _R)	10,000	V/μs

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	1.2	°C/W

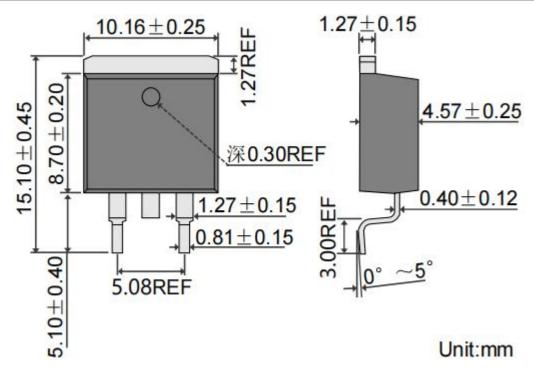


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ELECTRICAL CHARACTERISTICS (Pulse Test: Pulse Width=300 µ s,Duty Cycle ≤2%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
VF	Maximum Instantaneous Forward Voltage	I _F = 20A ; T _C = 25°C	0.92	V
		I _F = 20A ; T _C = 125°C	0.75	
		I _F = 40A ; T _C = 25°C	1.00	
		I _F = 40A ; T _C = 125°C	0.86	
I _R	Maximum Instantaneous Reverse Current	Rated DC Voltage, T _C = 25 °C	8	uA
		Rated DC Voltage, T _C = 125 ℃	11	mA



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