

Schottky Barrier Rectifier

INCHANGE SEMICONDUCTOR

STPS60170CT

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 $^\circ\!\!\mathbb{C}$ Max. for 10 Seconds

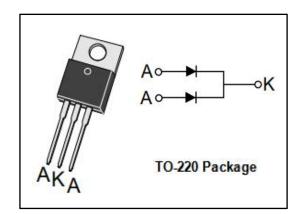
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT			
Vrrm	Peak Repetitive Reverse Voltage	170	V			
I _{F(AV)}	Average Rectified Forward Current	60	А			
IFSM	Nonrepetitive Peak Surge Current	270	А			
TJ	Junction Temperature	-65~175	Ĉ			
T _{stg}	Storage Temperature Range	-65~175	ĉ			
dv/dt	Voltage Rate of Change (Rated V _R)	10,000	V/ µ s			

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.0	°C/W

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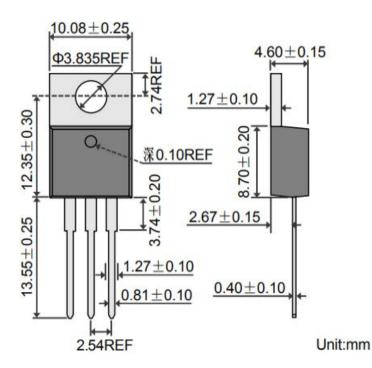
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SYMBOL	PARAMETER	CONDITIONS	МАХ	UNIT
	Maximum Instantaneous Forward Voltage	I _F = 30A ; T _C = 25℃	0.94	v
VF		I _F = 30A ; T _C = 125℃	0.76	
		I _F = 60A ; T _C = 25℃	1.05	
		I _F = 60A ; T _C = 125℃	0.92	
	Mariana la tata da ser Dana da Caracte	Rated DC Voltage, T _C = 25 $^\circ\!\mathrm{C}$	35	uA
IR	Maximum Instantaneous Reverse Current	Rated DC Voltage, T _C = 125° C 35	35	mA





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