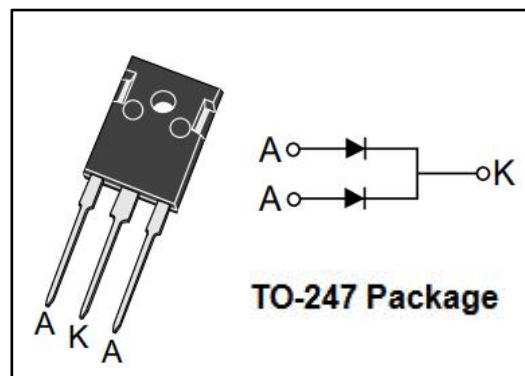


Schottky Barrier Rectifier

STPS60SM200C

FEATURES

- Plastic material used carriers Unerwriter Laboratory
- Metal silicon rectifier, majonty carrier conduction
- Low Power Loss,High Efficiency
- Guard ring for transient protection
- High Surge Capability,High Current Capability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

- For use in low voltage ,high frequency inverters,free wheeling and polarity protection applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

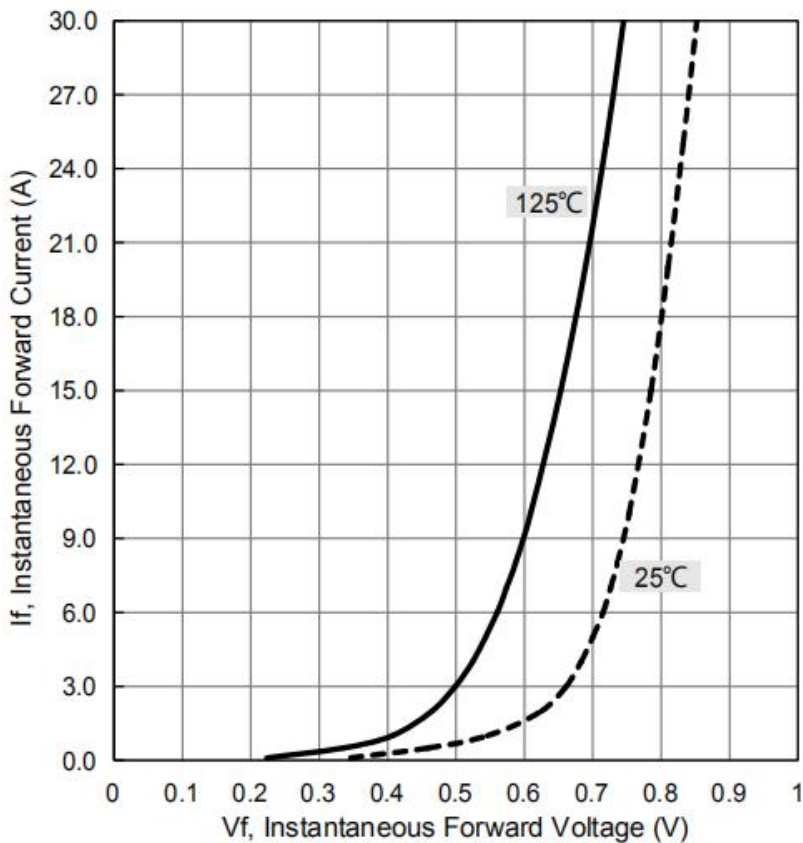
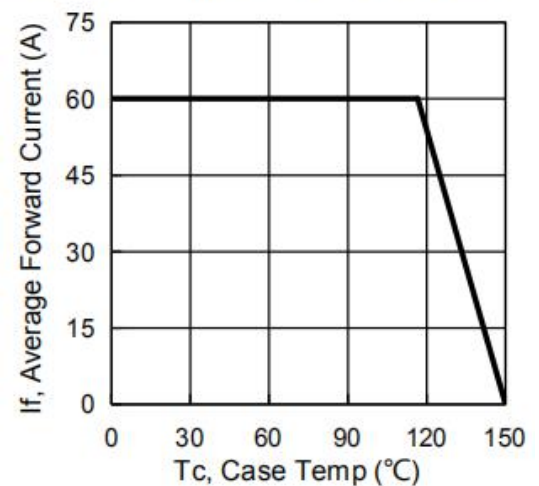
SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM} V _{RWM} V _R	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	200	V
I _{F(RMS)}	Forward current RMS	50	A
I _{F(AV)}	Average Rectified Forward Current @T _c =150°C	60	A
I _{FSM}	Nonrepetitive Peak Surge Current 8.3ms single half sine-wave superimposed on rated load conditions	500	A
I _{RRM}	Peak Repetitive Reverse Surge Current (20 μ s, 1.0kHz)	1.0	A
T _J	Junction Temperature	-40~150	°C
T _{stg}	Storage Temperature Range	-65~150	°C

Schottky Barrier Rectifier
STPS60SM200C
THERMAL CHARACTERISTICS

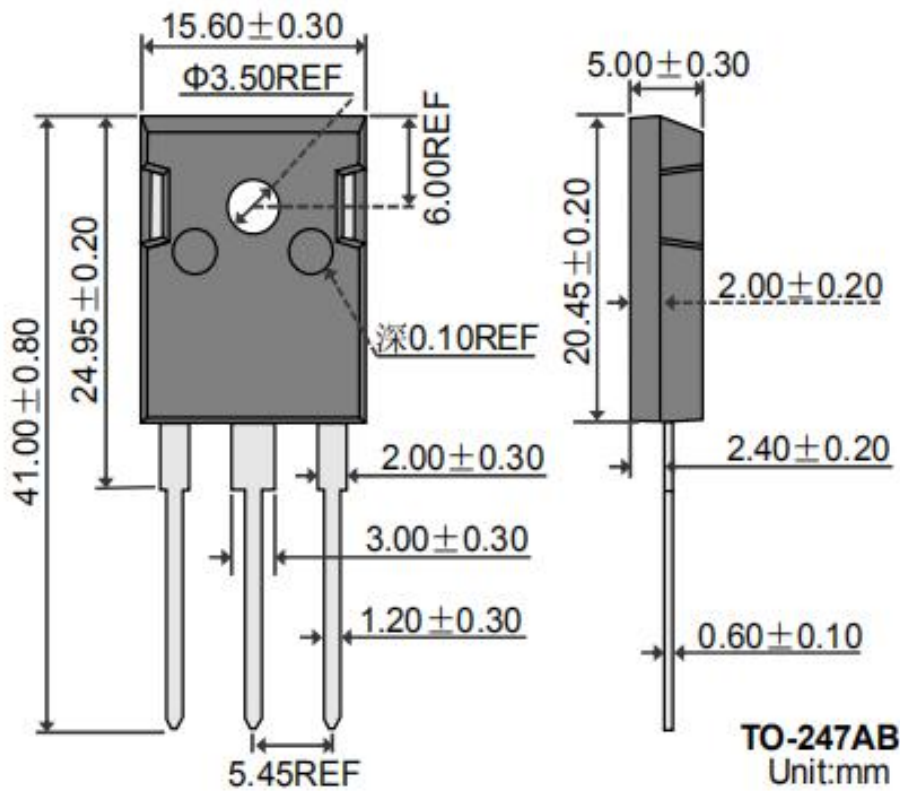
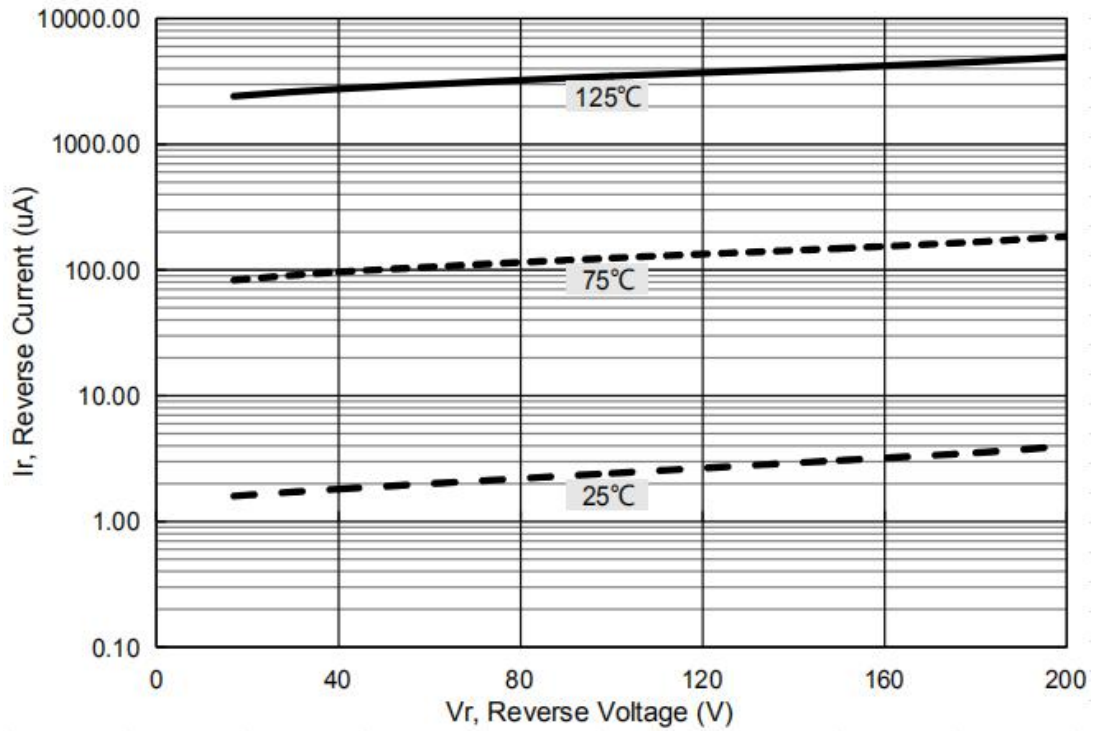
SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	0.5	$^{\circ}C/W$

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

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
		$I_F = 30A ; T_c = 25^{\circ}C$	0.90	
		$I_F = 30A ; T_c = 125^{\circ}C$	0.85	
I_R	Maximum Instantaneous Reverse Current	$V_R = V_{RWM}; T_c = 25^{\circ}C$	0.05	mA
		$V_R = V_{RWM}; T_c = 125^{\circ}C$	13.0	

Characteristic Curves
The forward voltage and forward current curve

Current derating curve, per element


The reverse leak current and the reverse voltage (single-device) curve.



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