

15A/60V Low VF Schottky Rectifier

FEATURES

- High current capability, low forward voltage
- Excellent high temperature stability
- Low power loss, and high efficiency
- High forward surge capability
- RoHS compliant, and Halogen free

MACHANICAL DATA

- Case: TO-277B small outline plastic package
- Terminal: Matte tin plated, solderable per MIL-STD-750, Method 2026
- Molding Compound Flammability Rating:UL94-0
- High temperature soldering guaranteed:260°C /10second
- Packed with FRP substrate and epoxy Underfilled

APPLICATIONS

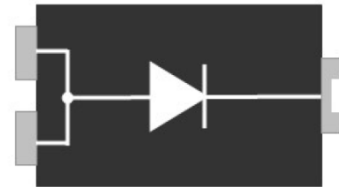
- Switching mode power supply applications
- Portable equipment battery applications
- High frequency rectification
- DC/DC converter
- Designed as bypass diodes for solar panels

ORDERING INFORMATION

- Device: K SD15S60SL
- Package: TO-277B
- Marking: H15T60
- Material: Halogen free
- Packing: Tape & 13'' Reel
- Quantity per reel: 5,000pcs



PACKAGE OUTLINE



PIN CONFIGURATION

ABSOLUTE MAXIMUM RATING (T_{amb}=25 °C, unless otherwise specified)

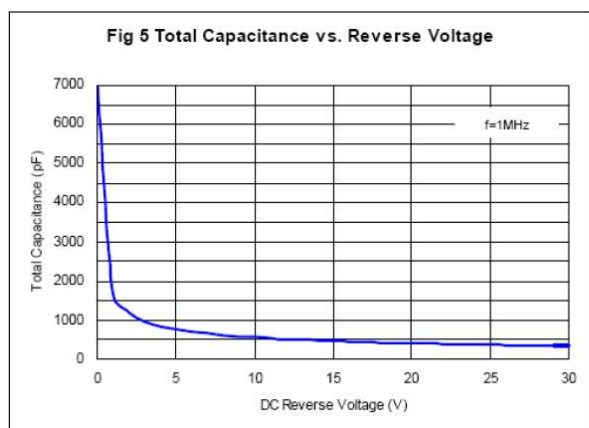
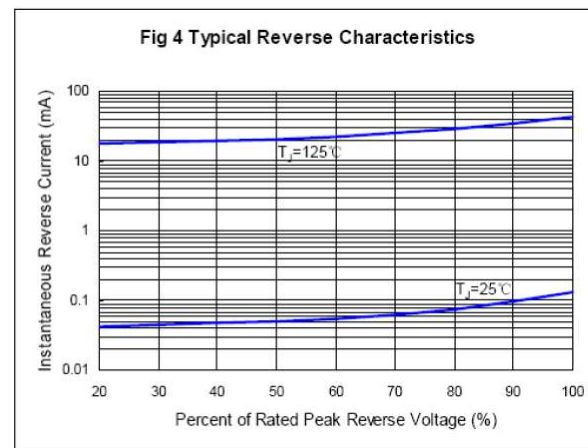
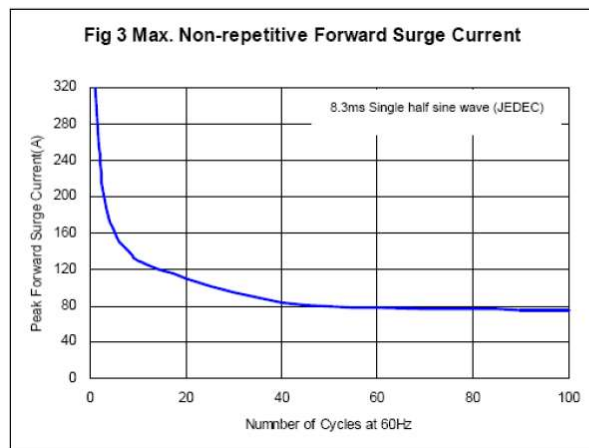
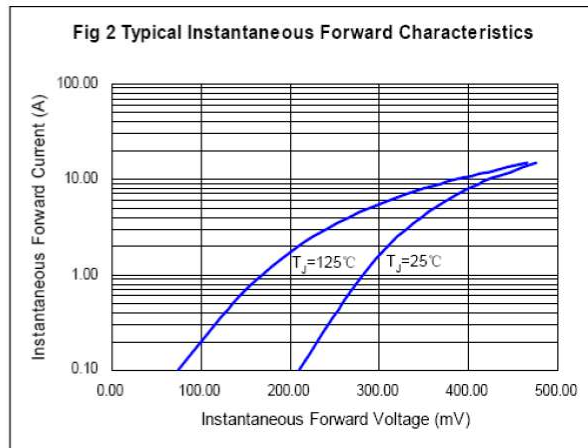
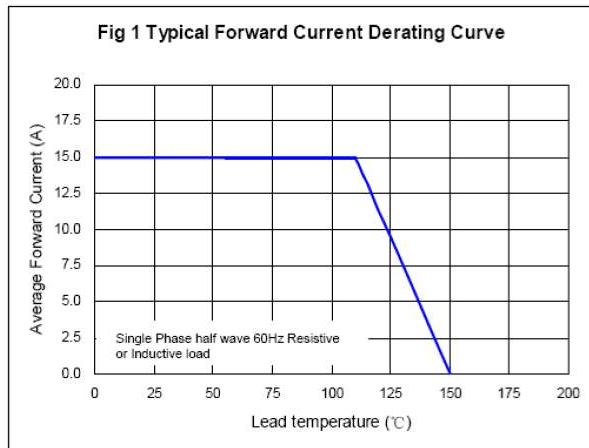
Symbol	Parameter	Value	Units
V _{RRM}	Repetitive Peak Reverse Voltage	60	V
I _{F(AV)}	Average Forward Current	15	A
I _{FSM}	Peak Forward Surge Current, 8.3ms single half sine-wave	320	A
T _J & T _{STG}	Junction and Storage Temperature	-50~+150	°C

ELECTRICAL CHARACTERISTICS (T_{amb}=25°C, unless otherwise specified)

Symbol	Parameter	Test Condition	Min	Typ	Max	Units
V _F	Forward Voltage	I _F = 3A @ 25°C		0.33	0.37	V
		I _F = 10A @ 25°C		0.42	0.47	V
		I _F = 15A @ 25°C		0.47	0.52	V
		I _F = 3A @ 125°C		0.24		V
		I _F = 10A @ 125°C		0.38		V
		I _F = 15A @ 125°C		0.46		V
V _R	Reverse Breakdown Voltage	I _R = 0.5mA	60			V
I _R	Reverse Leakage Current	V _R = 60V @ 25°C			0.30	mA
		V _R = 60V @ 125°C			60	mA
C _J	Junction Capacitance	f=1MHz, V _R =4V		850		pF
R _{th(JA)}	Thermal Resistance Junction to Ambient (note 1)			94		°C/W
R _{th(JL)}	Thermal Resistance Junction to Lead (note 1)			10		°C/W

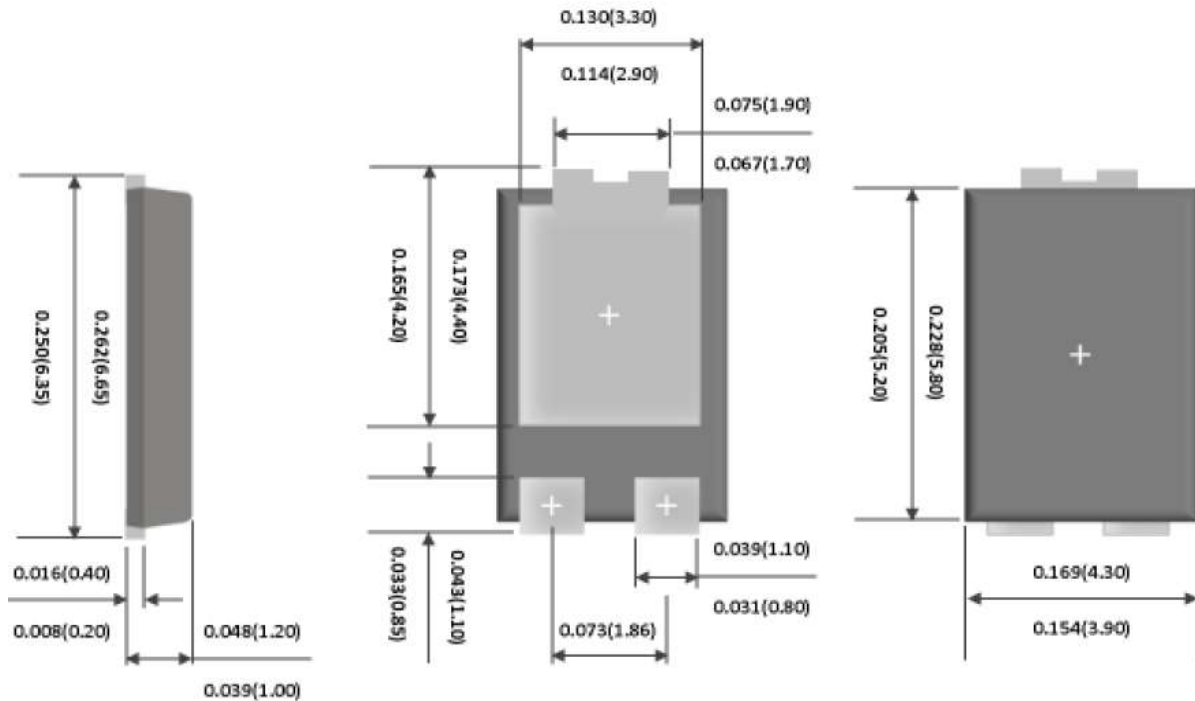
Note 1: Units mounted on recommended P.C.B. 1 oz. pad layout

ELECTRICAL CHARACTERISTICS CURVE



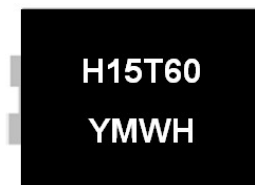
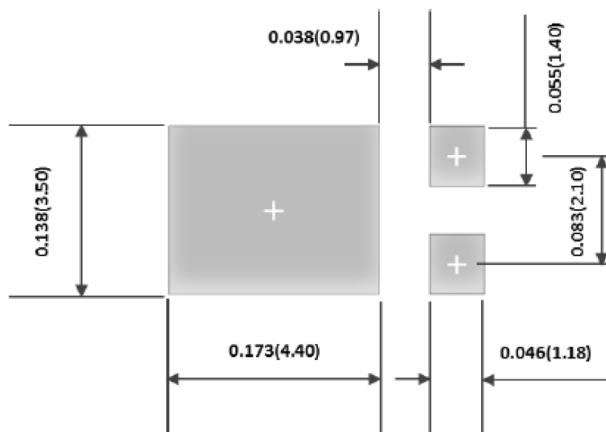
TO-277B PACKAGE OUTLINE DIMENSIONS

unit: mm



FOOT PRINT RECOMMENDATION

MARKING CODE



H15T60	YMWH
Device code	Y=Year (4=2014,5=2015...) M=Month (A~L) W=Week (1~5) H=Halogen Free