

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

ORDERING INFORMATION

- ✧ Device: SD20T60SL
- ✧ Package: TO-277B
- ✧ Marking: H20T60
- ✧ Material: Halogen free
- ✧ Packing: Tape & 13" Reel
- ✧ Quantity per reel: 5,000pcs

APPLICATIONS

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

PIN CONFIGURATION



PACKAGE OUTLINE



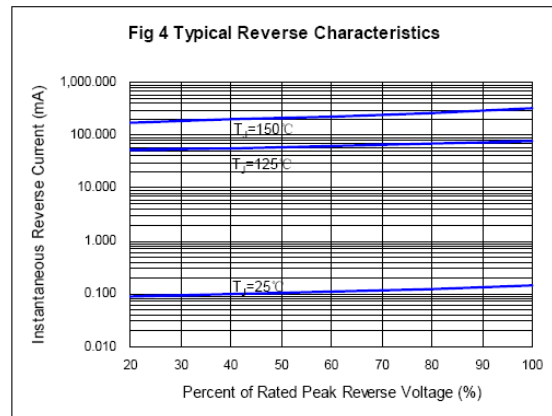
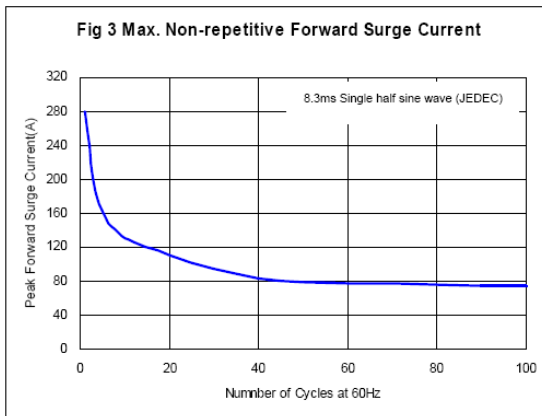
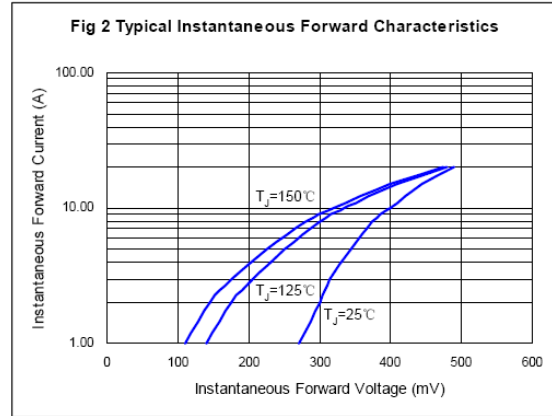
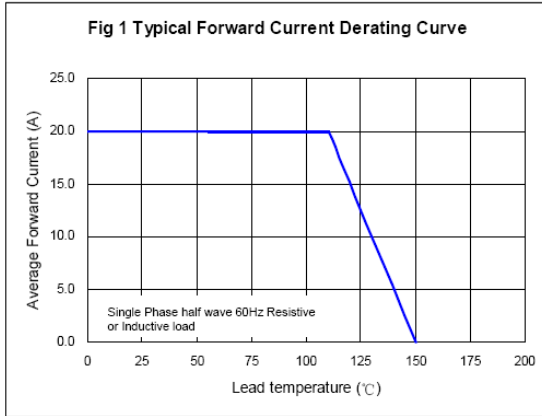
ABSOLUTE MAXIMUM RATING (Tamb=25°C, unless otherwise specified)

Symbol	Parameter	Value	Units
V_{RRM}	Repetitive Peak Reverse Voltage	60	V
$I_{F(AV)}$	Average Forward Current	20	A
I_{FSM}	Peak Forward Surge Current, 8.3ms single half sine-wave	280	A
T_J & T_{STG}	Junction and Storage Temperature	-50~+150	°C

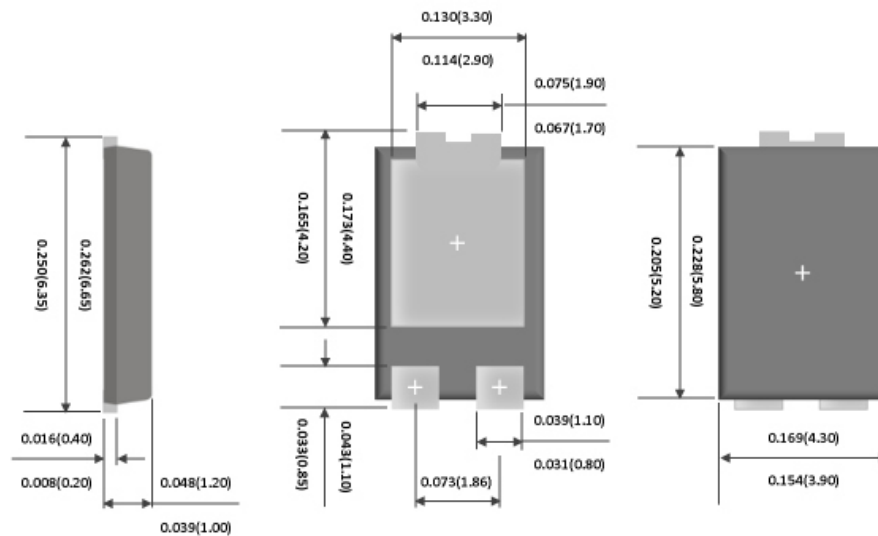
ELECTRICAL CHARACTERISTICS (Tamb=25°C, unless otherwise specified)

Symbol	Parameter	Test Condition	Min	Typ	Max	Units
V_F	Forward Voltage	$I_F = 3A @ 25^\circ C$		0.34	0.36	V
		$I_F = 10A @ 25^\circ C$		0.40	0.45	V
		$I_F = 20A @ 25^\circ C$		0.49	0.54	V
		$I_F = 3A @ 125^\circ C$		0.21		V
		$I_F = 10A @ 125^\circ C$		0.34		V
		$I_F = 20A @ 125^\circ C$		0.48		V
V_R	Reverse Breakdown Voltage	$I_R = 0.5mA$	60			V
I_R	Reverse Leakage Current	$V_R = 60V @ 25^\circ C$			180	A
		$V_R = 60V @ 125^\circ C$			100	mA

ELECTRICAL CHARACTERISTICS CURVE



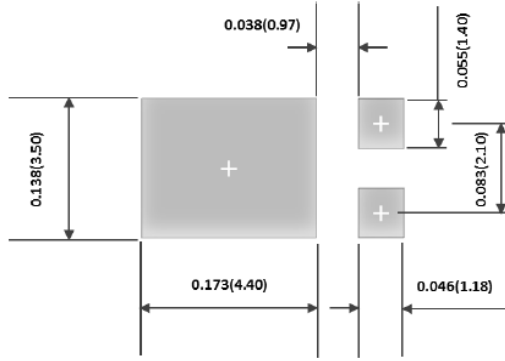
TO-277B PACKAGE OUTLINE DIMENSIONS



unit: mm

FOOT PRINT RECOMMENDATION

MARKING CODE



unit: mm



H20T60	YMWH
Device code	Y=Year (4=2014,5=2015...) M=Month (A~L) W=Week (1~5) H=Halogen Free