



Low VF Schottky Barrier Rectifier
Reverse Voltage 60 Volts, Forward Current 20 Amperes

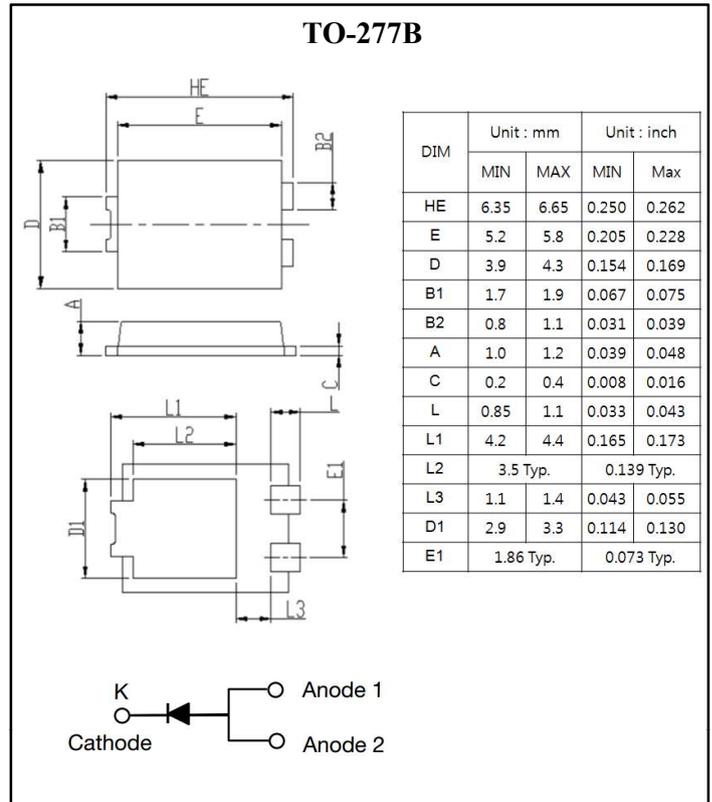
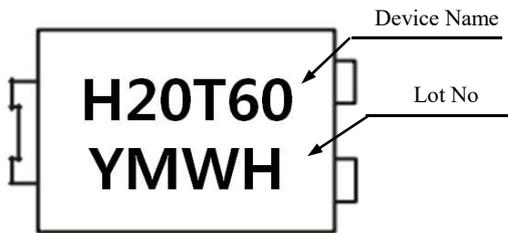
Features

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

Mechanical 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

Marking



Maximum Ratings

Ratings at 25°C ambient temperature unless otherwise specified
Single phase half wave 60 Hz, resistive or inductive load
For capacitive load, derate current by 20%

Parameter	Symbol	Rating	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	60	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	20	A
Peak Forward Surge Current, 50Hz Half Sine-wave	I_{FSM}	280	A
Operating Junction and Storage Temperature Range	T_J & T_{STG}	-50 to +150	°C

Electrical Characteristics ($T_a=25^\circ\text{C}$ unless otherwise noted)

Characteristic	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Forward Voltage Drop	V_F	-	0.32	0.35	V	$I_F=3A, T_J=25^\circ\text{C}$
		-	0.40	0.45	V	$I_F=10A, T_J=25^\circ\text{C}$
		-	0.49	0.54	V	$I_F=20A, T_J=25^\circ\text{C}$
		-	0.21	-	V	$I_F=3A, T_J=125^\circ\text{C}$
		-	0.34	-	V	$I_F=10A, T_J=125^\circ\text{C}$
		-	0.48	-	V	$I_F=20A, T_J=125^\circ\text{C}$
Leakage Current	I_R	-	-	0.2	mA	$V_R=60V, T_J=25^\circ\text{C}$
		-	-	100	mA	$V_R=60V, T_J=125^\circ\text{C}$



Ratings and Characteristics Curves (Ta=25°C unless otherwise noted)

Fig.1 Forward Current Derating Curve

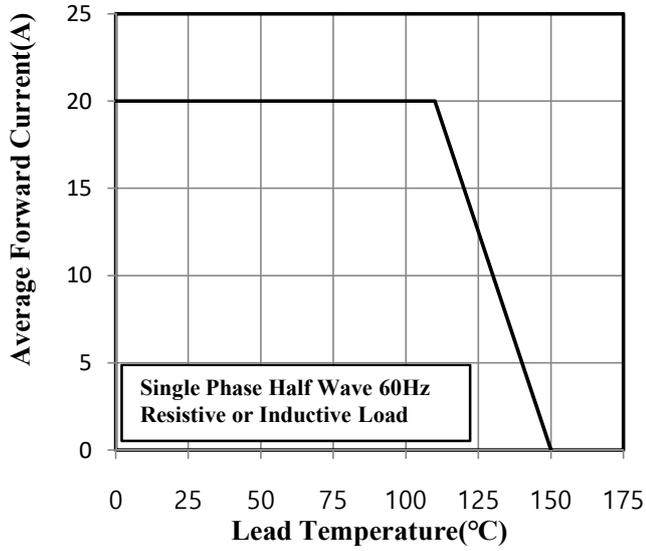


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

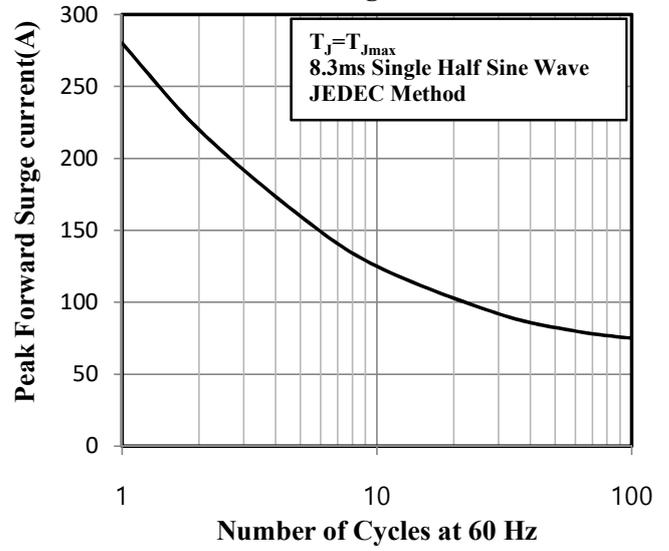


Fig.3 Typical Instantaneous Forward Characteristics

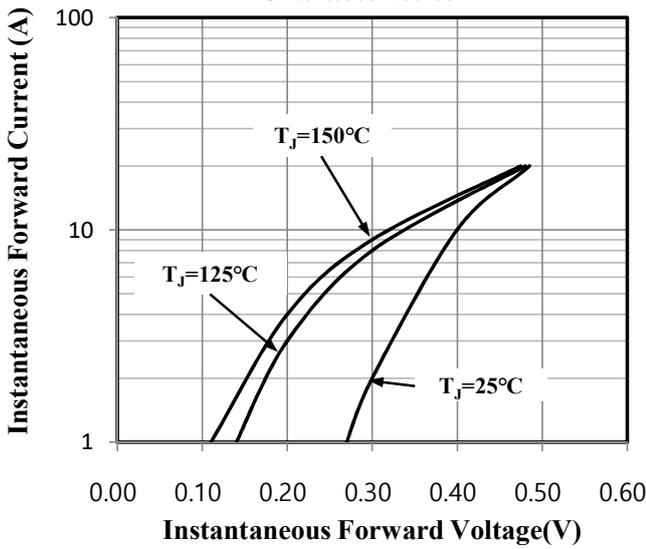


Fig.4 Typical Reverse Characteristics

