



**Low VF Schottky Barrier Rectifier  
Reverse Voltage 60 Volts, Forward Current 15 Amperes**

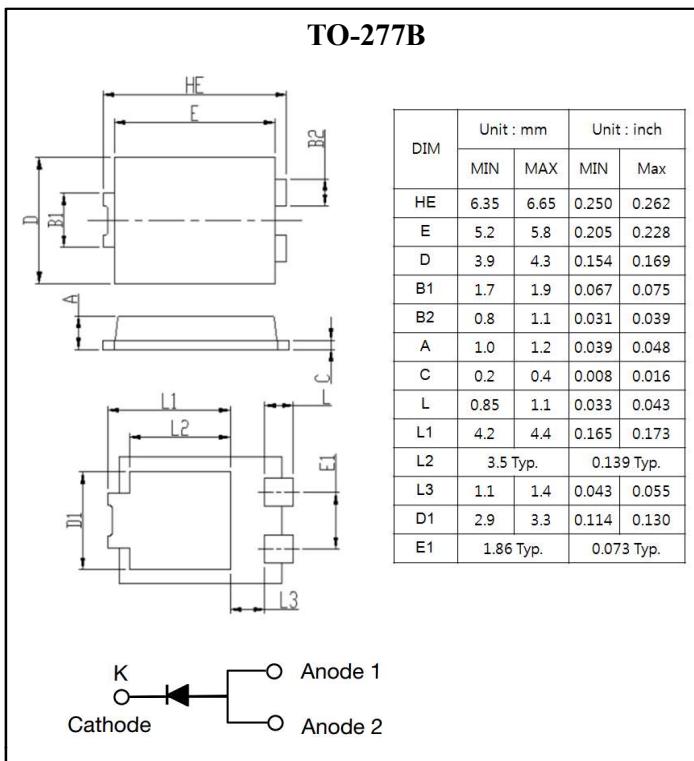
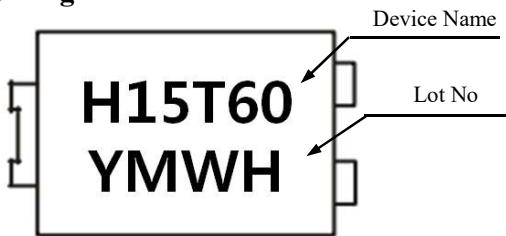
**Features**

- 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 <sub>RRM</sub>	60		V
Maximum Average Forward Rectified Current	I <sub>F(AV)</sub>	15		A
Peak Forward Surge Current, 50Hz Half Sine-wave	I <sub>FSM</sub>	320		A
Operating Junction and Storage Temperature Range	T <sub>J</sub> & T <sub>STG</sub>	-50 to +150		°C

**Electrical Characteristics (Ta=25°C unless otherwise noted)**

Characteristic	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Forward Voltage Drop	V <sub>F</sub>	-	0.33	0.37	V	I <sub>F</sub> =3A , T <sub>J</sub> =25 °C
		-	0.42	0.47	V	I <sub>F</sub> =10A , T <sub>J</sub> =25 °C
		-	0.47	0.52	V	I <sub>F</sub> =15A, T <sub>J</sub> =25 °C
		-	0.24	-	V	I <sub>F</sub> =3A , T <sub>J</sub> =125 °C
		-	0.38	-	V	I <sub>F</sub> =10A , T <sub>J</sub> =125 °C
		-	0.46	-	V	I <sub>F</sub> =15A, T <sub>J</sub> =125 °C
Leakage Current	I <sub>R</sub>	-	-	0.5	mA	V <sub>R</sub> =60V, T <sub>J</sub> =25 °C
		-	-	60	mA	V <sub>R</sub> =60V, T <sub>J</sub> =125 °C
Junction Capacitance	C <sub>J</sub>	-	850	-	pF	f=1MHz, V <sub>R</sub> =4V
Thermal Resistance (Note 1)	R <sub>th(j-a)</sub>	-	94	-	°C/W	
	R <sub>th(j-l)</sub>	-	10	-	°C/W	

Note 1 : Units mounted on recommended PCB. 1oz. pad layout



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

Fig.1 Forward Current Derating Curve

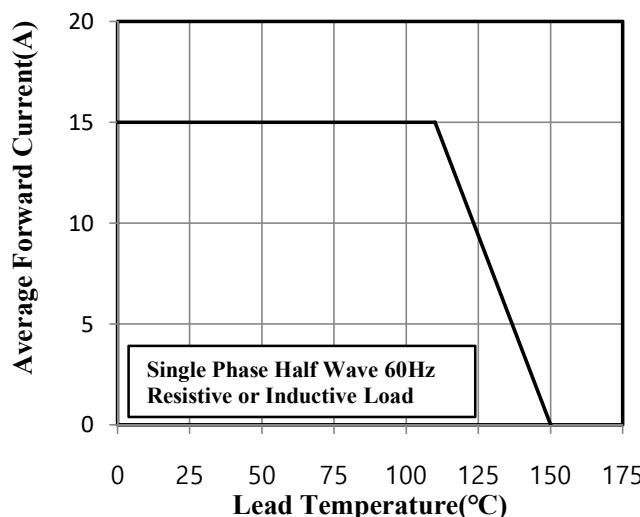


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

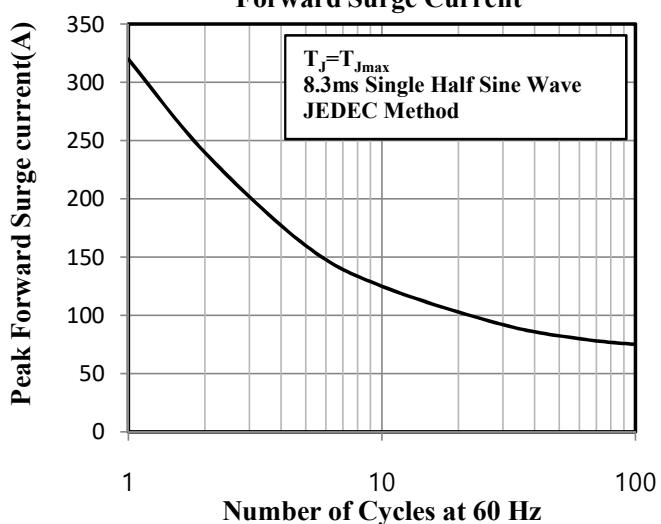


Fig.3 Typical Instantaneous Forward Characteristics

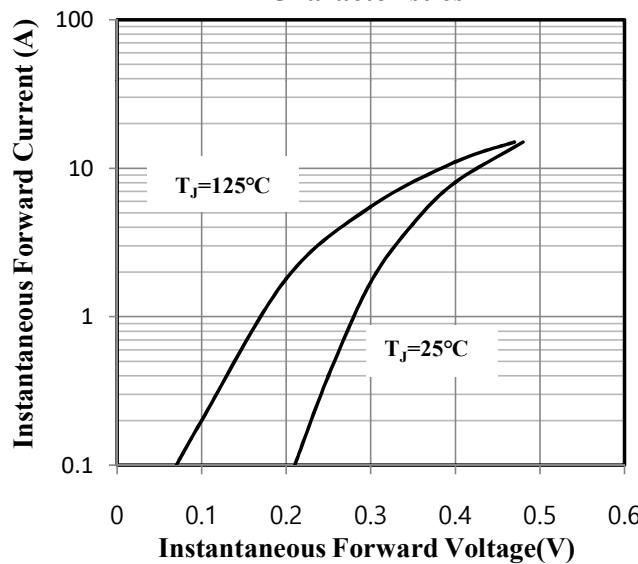


Fig.4 Typical Junction Capacitance

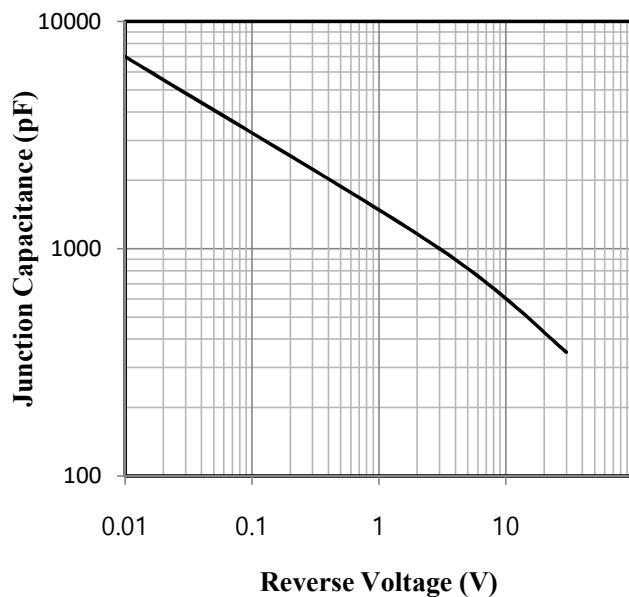


Fig.5 Typical Reverse Characteristics

