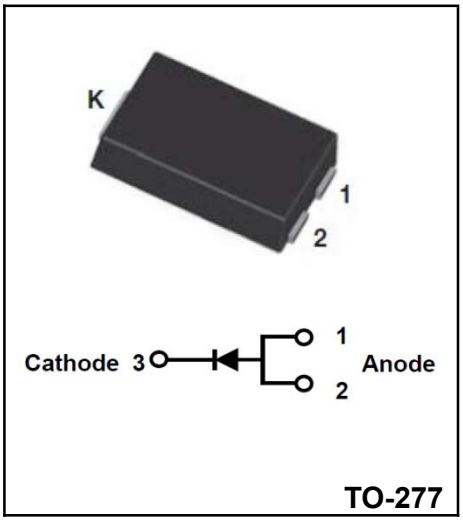
Trench Schottky Barrier Rectifiers

Reverse Voltage - 200 V

Forward Current - 10 A



FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Built-in strain relief,ideal for automated placement
- Low forward voltage drop
- High forward surge current capability
- High temperature soldering guaranteed 260°C/10 seconds at terminalsAdvanced trench technology

MECHANICAL DATA

- Case: TO-277
- Terminals: Solderable per MIL-STD-750, Method 2026

Maximum Ratings (Per Leg) at Ta=25°C unless otherwise specified

Parameter		Symbols	Value	Units
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	200	V
Maximum RMS voltage		V_{RMS}	140	V
Maximum DC Blocking Voltage		V_{DC}	200	V
Maximum Average Forward Rectified Current	T_L=100°C	$I_{F(AV)}$	10	A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave superimposed on rated load per diode		I_{FSM}	200	A
Operating Temperature Range		T_J	-55 ~ +175	°C
Storage Temperature Range		T_{STG}	-55 ~ +150	°C
Typical Thermal Resistance Per diode(munted on FR-4 PCB)	TO-277	$R_{\theta JC}$	8	°C/W

Note:1.Thermal resistance from junction to case lead mounted on P.C.B. with 10.0 mm x 10.0 mm) copper pad areas

Electrical Characteristics (Per Leg) unless otherwise specified

Characteristics		Symbols	Value		Units
Forward Voltage Drop(Note2)		V_F	Typ	Max	V
at I_F=5A Instantaneous forward voltage per diode	TA=25°C		0.70	0.75	
	TA=125°C		0.62	0.67	
at I_F=10A Instantaneous forward voltage per diode	TA=25°C		0.80	0.85	
	TA=125°C		0.70	0.77	
Instantaneous reverse current per diode at rated reverse voltage	TA=25°C	I_R	0.5	20	uA
	TA=100°C		1	10	mA

RATINGS AND CHARACTERISTIC CURVES

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

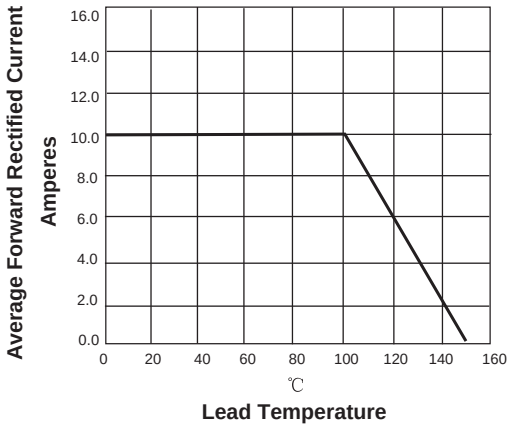


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG

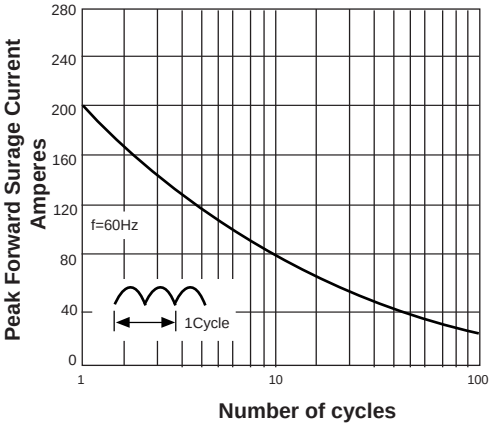


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

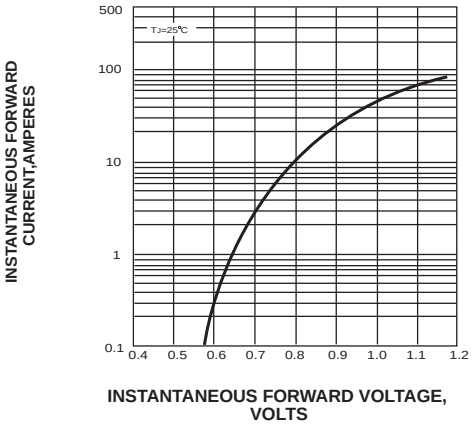
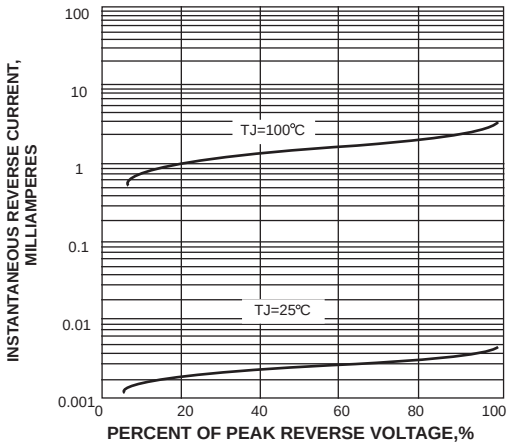
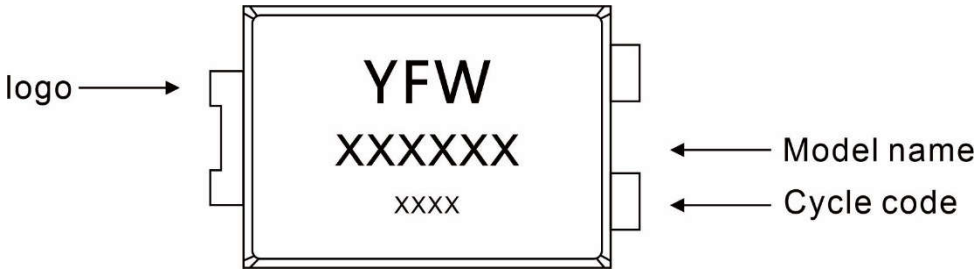


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



Marking Diagram

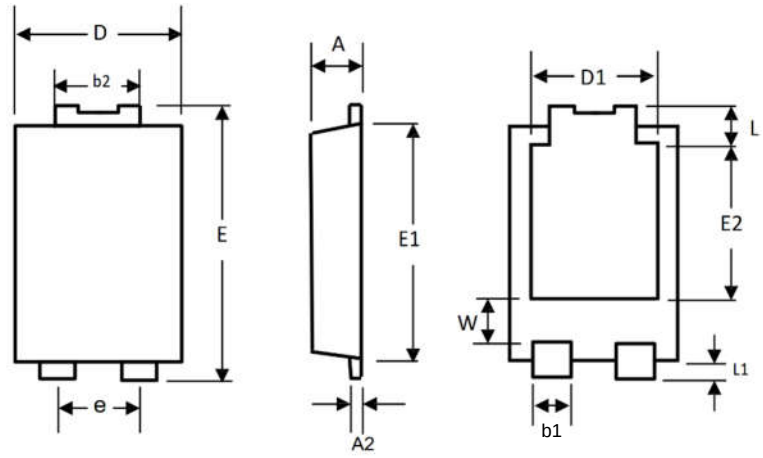


Ordering information

Package	Packing Description	Packing Quantity
TO-277	Tape/Reel,13"reel	5000PCS/Reel 50000PCS/Carton

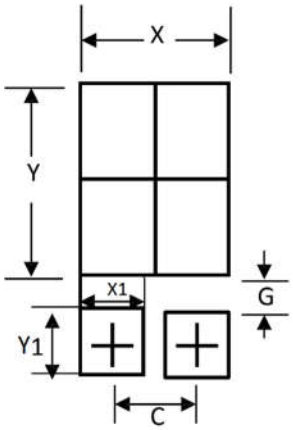
Package Dimensions

TO-277



Dim.	Millimeter(mm)		mil	
	Min.	Max.	Min.	Max.
A	1.1	1.2	43	47
A2	0.3	0.4	12	16
b1	0.8	1	32	39
b2	1.7	1.9	67	75
D	3.9	4.1	154	162
D1	3.054		120	
E	6.4	6.6	252	260
e	1.84		73	
E1	5.3	5.5	209	217
E2	3.549		140	
L	0.8	1	32	39
L1	0.5	0.7	20	28
W	1.1	1.4	43	55

The recommended mounting pad size



Dim	Min
C	1.8
G	0.9
X	3.4
X1	1.4
Y	4.9
Y1	1.4

unit:mm

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