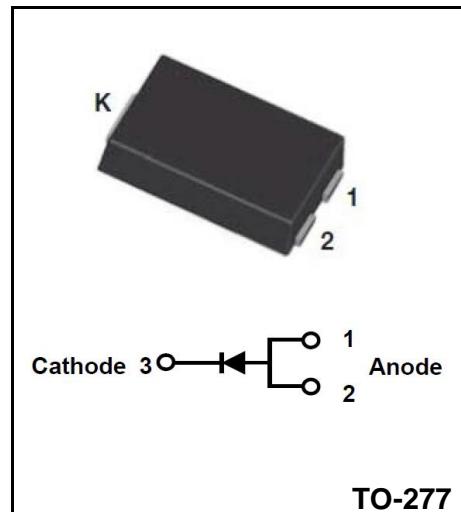


Trench MOS Barrier Schottky Rectifier
Reverse Voltage - 60 V
Forward Current - 10 A
FEATURES

- ◆ Advanced trench technology
- ◆ Low forward voltage drop
- ◆ Low power losses
- ◆ High efficiency operation
- ◆ Lead free in comply with EU RoHS 2011/65/EU directives

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}	60	V
Maximum RMS voltage	V _{RMS}	42	V
Maximum DC Blocking Voltage	V _{DC}	60	V
Maximum Average Forward Rectified Current Per diode	I _{F(AV)}	10	A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave superimposed on rated load per diode	I _{FSM}	260	A
Operating Temperature Range	T _J	-55 ~ +150	°C
Storage Temperature Range	T _{STG}	-55 ~ +150	°C
Typical Thermal Resistance Per diode(munted on FR-4 PCB)	R _{θJC}	72	°C/W

Note1: Thermal resistance from Junction to case per leg mounted on heatsink.

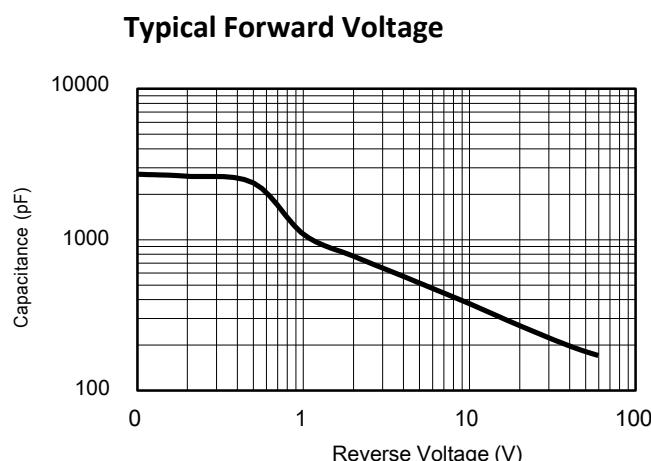
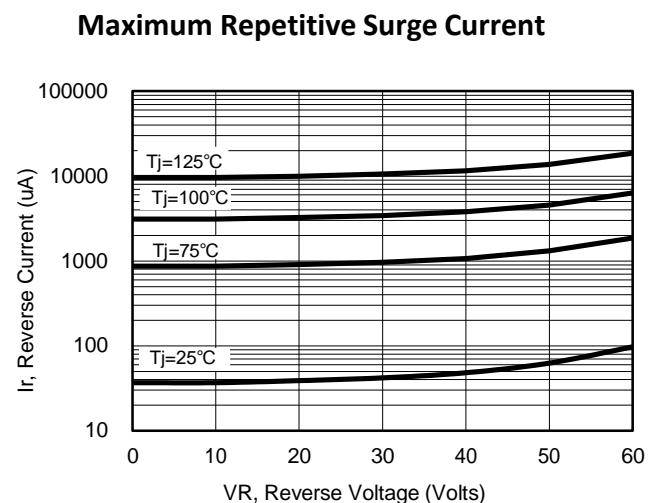
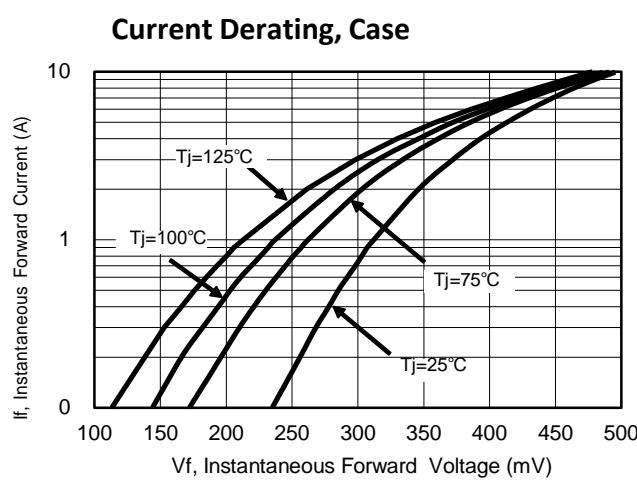
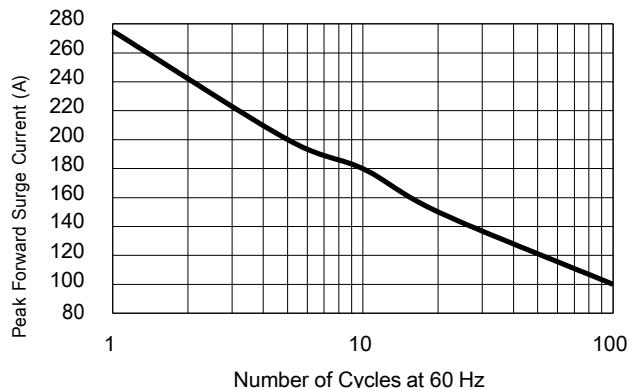
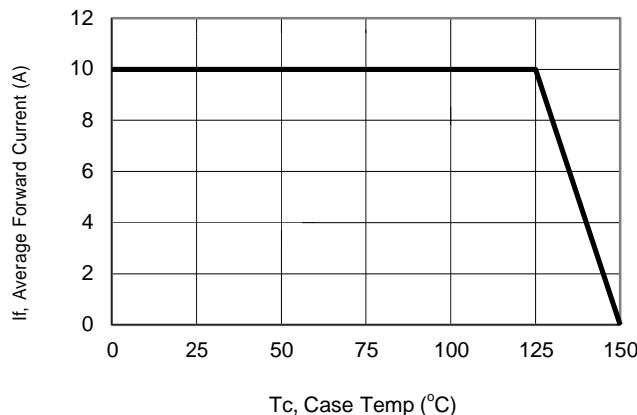
Electrical Characteristics (Per Leg) unless otherwise specified

Characteristics	Symbols	Value		Units
Forward Voltage Drop(Note2)	V _F	Typ	Max	V
at I _F =5A Instantaneous forward voltage per diode		0.40	-	
		0.36	-	
at I _F =10A Instantaneous forward voltage per diode		0.47	0.55	
		0.42	-	
Instantaneous reverse current per diode at rated reverse voltage	I _R	60	100	uA
		-	20	mA

Note2: (1)Pulse test: 300 μs pulse width, 1 % duty cycle

(2) Pulse test: Pulse width ≤ 40 ms

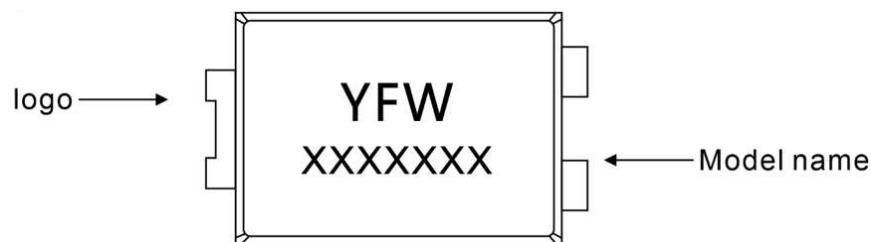
RATINGS AND CHARACTERISTIC CURVES



Typical Reverse Current

Typical Junction Capacitance

Marking Diagram



Ordering information

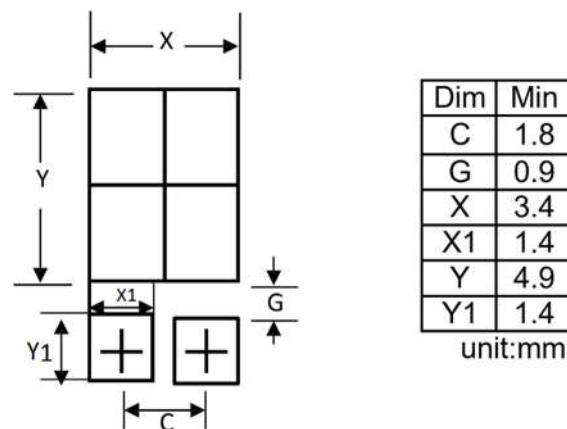
Package	Packing Description	Packing Quantity
TO-277	Tape/Reel, 13" reel	5000PCS/Reel 50000PCS/Carton

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



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