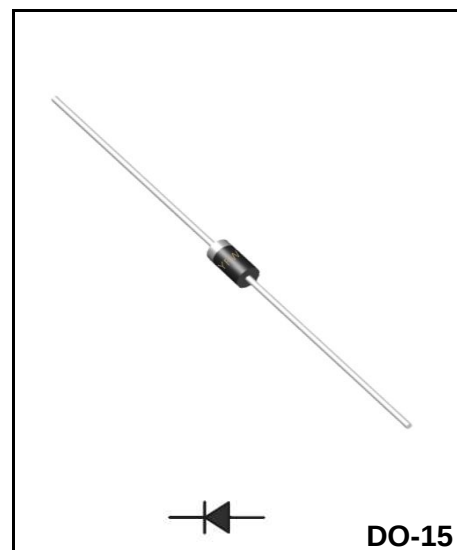


Trench MOS Barrier Schottky Rectifier
Reverse Voltage - 40 V
Forward Current - 3 A
FEATURES

- ◆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: DO-15
- ◆Terminals: Solderable per MIL-STD-750, Method 2026
- ◆Approx. Weight: 0.33g /0.0116oz


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

Parameter		Symbols	Value	Units
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	40	V
Maximum RMS voltage		V_{RMS}	40	V
Maximum DC Blocking Voltage		V_{DC}	40	V
Maximum Average Forward Rectified Current	Per diode	$I_{F(AV)}$	3	A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave superimposed on rated load per diode		I_{FSM}	50	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)	DO-15	$R_{\theta JC}$	22	°C/W

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

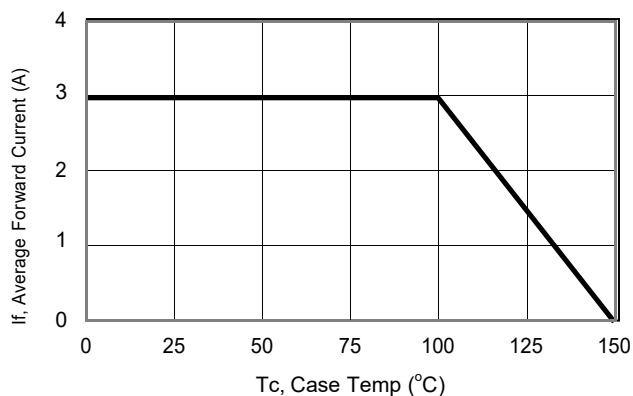
Electrical Characteristics (Per Leg) unless otherwise specified

Characteristics		Symbols	Value		Units
Forward Voltage Drop(Note2)		V_F	Typ	Max	V
at $I_F=3A$ Instantaneous forward voltage per diode	TA=25°C		0.39	-	
	TA=125°C		0.32	-	
Instantaneous reverse current per diode at rated reverse voltage	TA=25°C	I_R	100	-	uA
	TA=125°C		100	-	mA

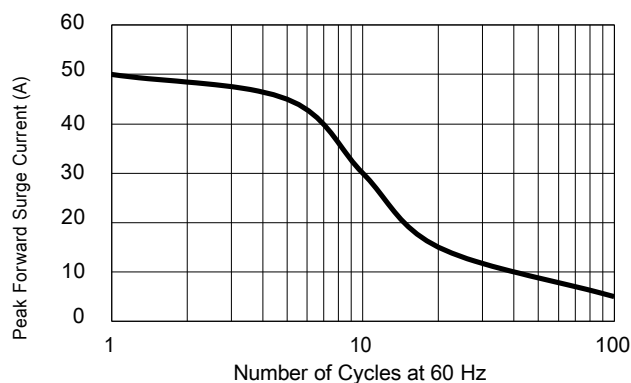
Note2: (1)Pulse test: 300 μ s pulse width, 1 % duty cycle

(2) Pulse test: Pulse width $\leq$ 40 ms

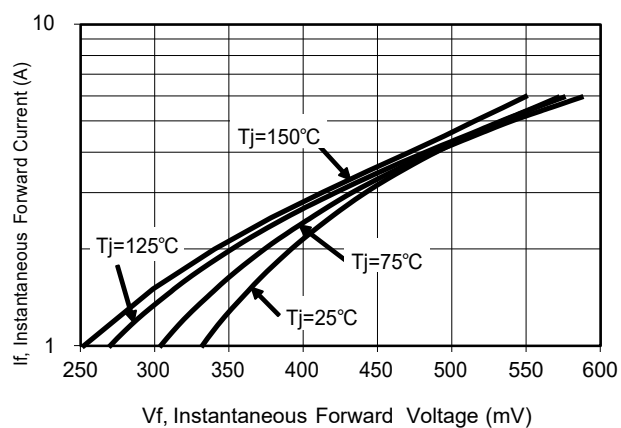
RATINGS AND CHARACTERISTIC CURVES



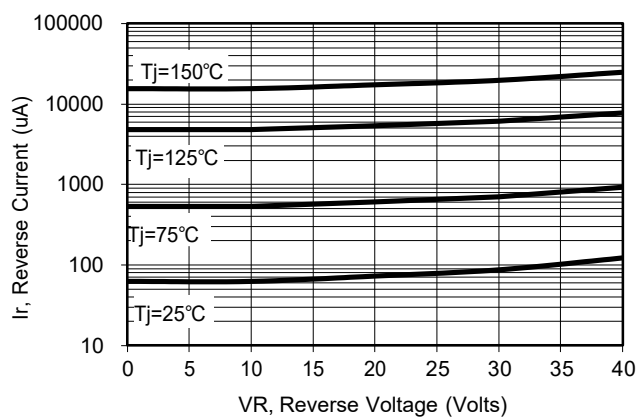
Current Derating, Case



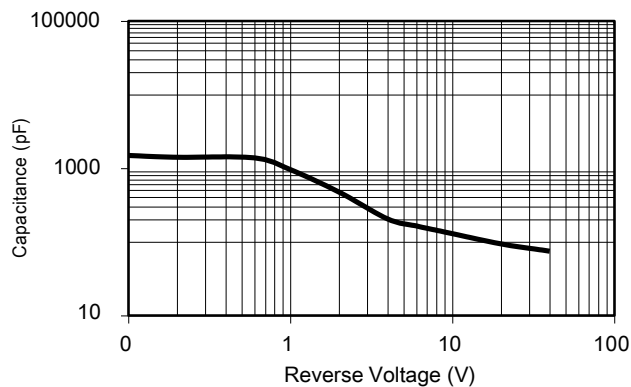
Maximum Repetitive Surge Current



Typical Forward Voltage



Typical Reverse Current



Typical Junction Capacitance

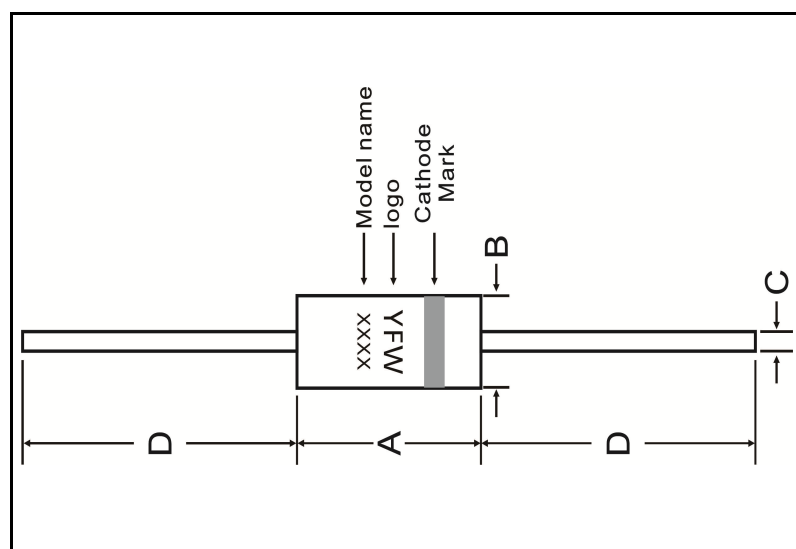
Ordering information

Package	Packing Description	Packing Quantity
DO-15	bulk	500PCS/Box 30000PCS/Carton
	braid	3000PCS/Box 30000PCS/Carton

Package Dimensions

DO-15

Dim.	Millimeter(mm)		INCHES	
	Min.	Max.	Min.	Max.
A	5.80	7.60	0.230	0.300
B	2.60	3.60	0.104	0.140
C	0.71	0.86	0.028	0.034
D	25.4	-	1.00	-



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