

**Trench MOS Barrier Schottky Rectifier**

**Reverse Voltage - 100 V**

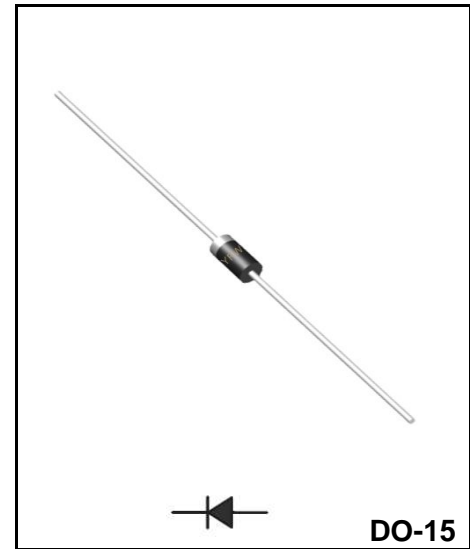
**Forward Current - 3 A**

**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		$V_{RRM}$	100	V
Maximum RMS voltage		$V_{RMS}$	100	V
Maximum DC Blocking Voltage		$V_{DC}$	100	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.**

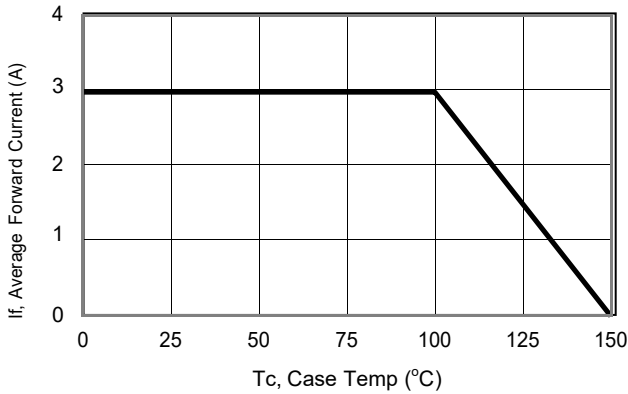
**Electrical Characteristics (Per Leg) unless otherwise specified**

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		0.75	0.80	
	TA=125°C		0.71	-	
Instantaneous reverse current per diode at rated reverse voltage	TA=25°C	$I_R$	10	-	uA
	TA=125°C		10	-	mA

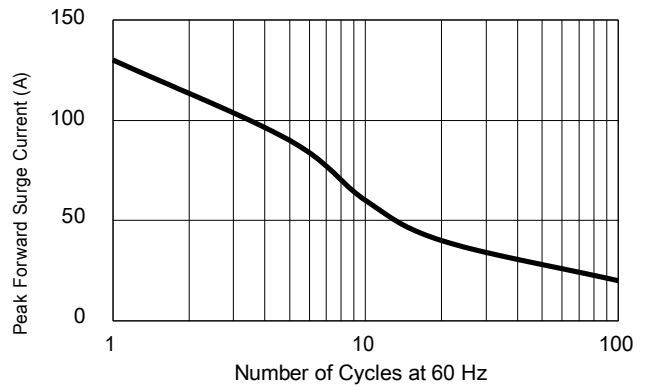
**Note2: (1)Pulse test: 300 μs pulse width, 1 % duty cycle**

**(2) Pulse test: Pulse width ≤ 40 ms**

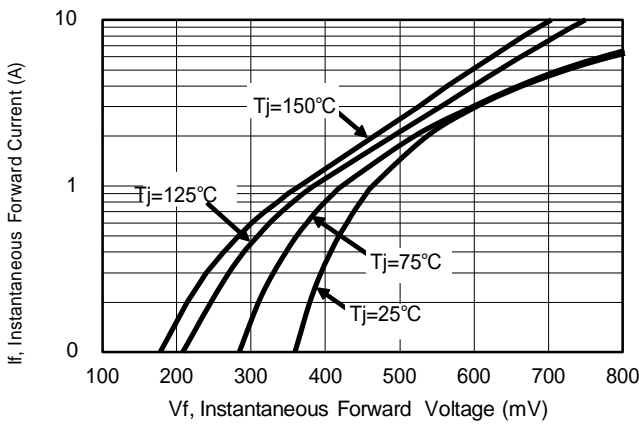
**RATINGS AND CHARACTERISTIC CURVES**



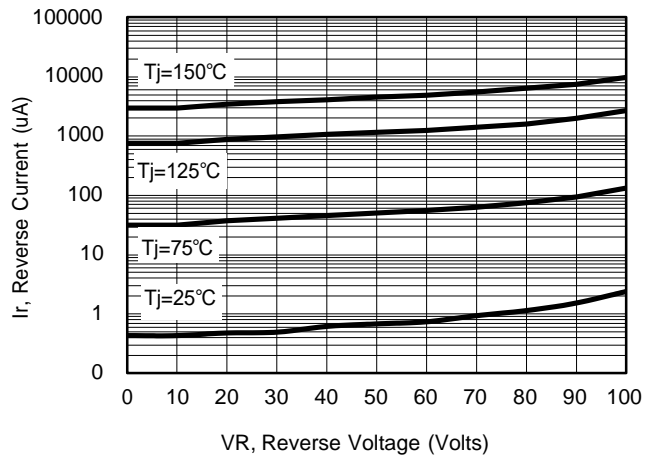
**Current Derating, Case**



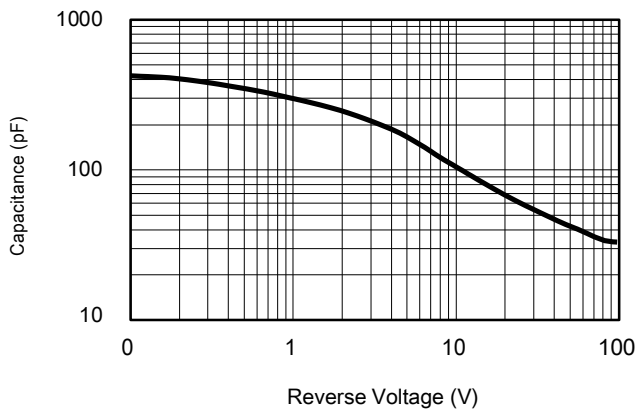
**Maximum Repetitive Surge Current**



**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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