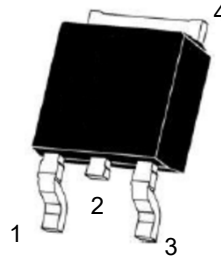
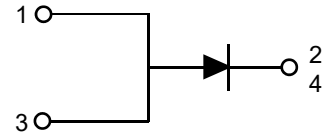


Low VF Schottky Barrier Rectifiers

Feature

- Low power loss , high efficiency
- Low forward voltage drop
- High surge capability
- High temperature soldering guaranteed
- Mounting position: any


TO-252 (Top View)

Circuit Diagram

Absolute maximum rating@25°C

Rating	Symbol	Value	Units
Maximum repetitive peak reverse voltage	V_{RRM}	60	V
Maximum rms voltage	V_{RMS}	48	V
Maximum DC Blocking Voltage	V_{DC}	60	V
Maximum average forward rectified current	$I_{F(AV)}$	15	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	150	A
Typical junction capacitance ¹⁾	C_J	200	pF
Typical thermal resistance ²⁾	$R_{\theta JA}$	35	°C/W
Junction and Storage Temperature Range	T_J, T_{STG}	-55~+175	°C

Notes:

1. Measured at 1 MHz and applied reverse voltage of 4 V D.C
2. Mounted on infinite heat sink..

Electrical characteristics per line@25°C (unless otherwise specified)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units	
Breakdown Voltage	V_{BR}	$I_R = 0.5mA$	100	-	-	V	
Instantaneous forward voltage	V_F	$I_F = 15A$	-	0.52	0.55	V	
Reverse current	I_R	$V_R = 48V$	-	5	-	μA	
		$V_R = 60V$	$T_J = 25^\circ C$	-	-	50	μA
			$T_J = 100^\circ C$	-	10	-	mA

Typical Characteristics

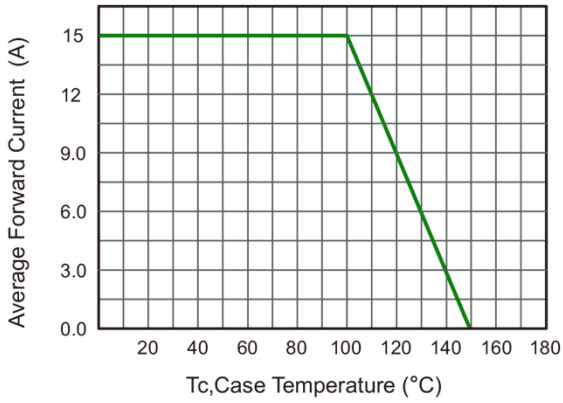


Fig.1 Typical Forward Current Derating Curve

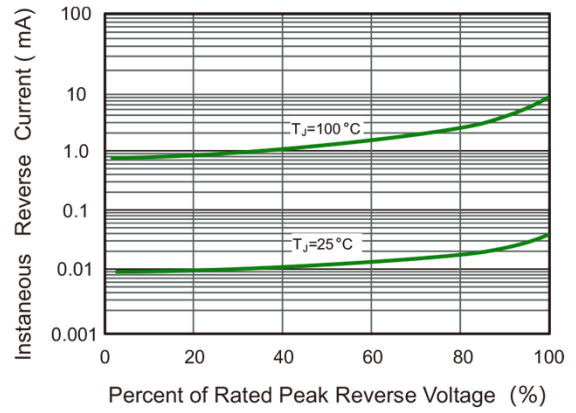


Fig.2 Typical Reverse Characteristics

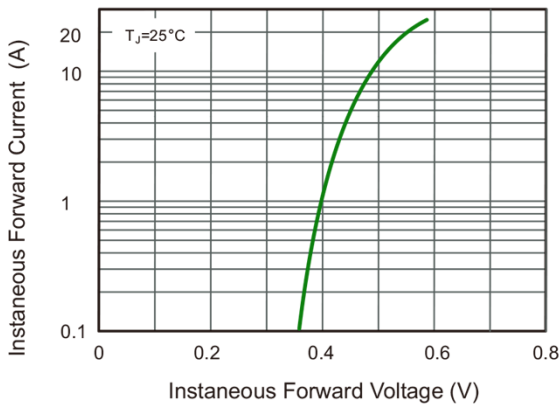


Fig.3 Typical Forward Characteristic

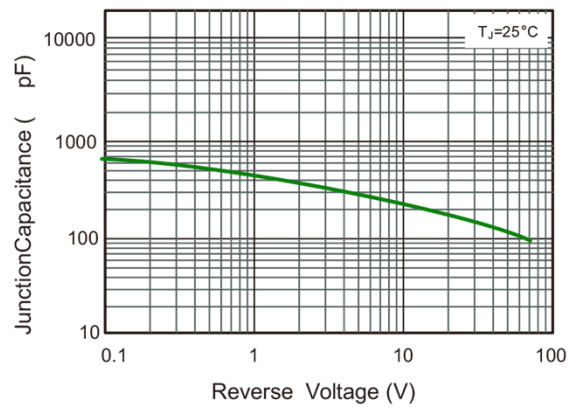


Fig.4 Typical Junction Capacitance

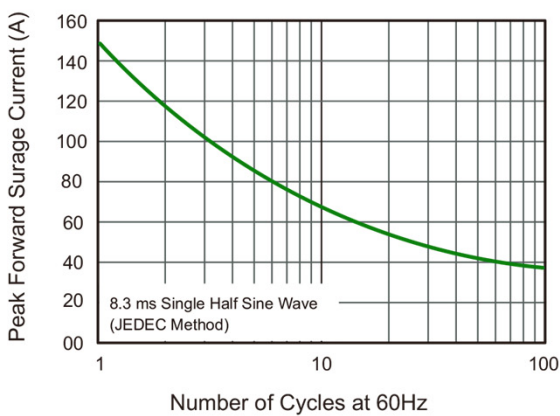


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

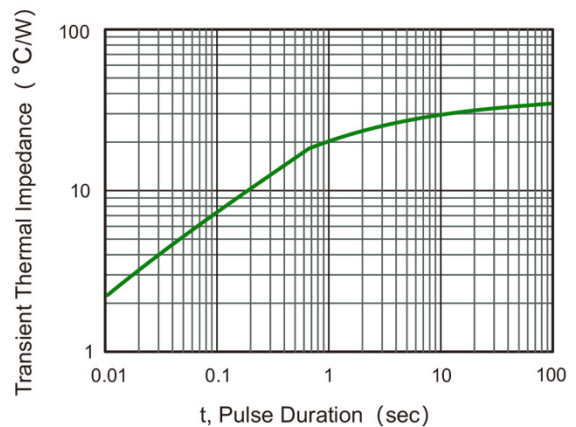
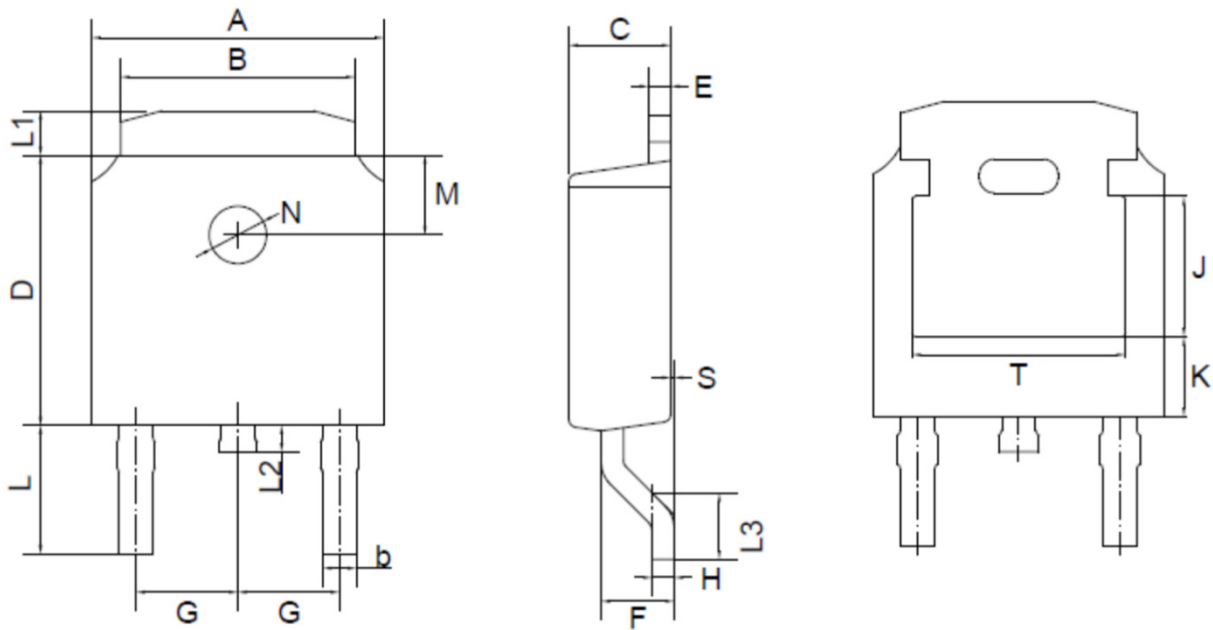



Fig.6- Typical Transient Thermal Impedance

Product dimension (TO-252)



Dim	Millimeters		Inches	
	Min	Max	Min	Max
A	6.30	6.70	0.248	0.264
B	5.10	5.50	0.201	0.217
b	0.30	0.80	0.012	0.031
C	2.10	2.50	0.083	0.098
D	5.90	6.30	0.232	0.248
E	0.40	0.60	0.016	0.024
F	1.30	1.80	0.051	0.071
G	2.29 Typ.		0.090 Typ.	
H	0.45	0.55	0.018	0.022
L	2.70	3.10	0.106	0.122
L1	0.80	1.20	0.031	0.047
L2	0.60	1.00	0.024	0.039
L3	1.00	1.75	0.039	0.069
S	0.00	0.23	0.000	0.009
M	1.80 Typ.		0.071 Typ.	
N	1.30 Typ.		0.051 Typ.	
J	3.16 Ref.		0.124 Ref.	
K	1.80 Ref.		0.071 Ref.	
T	4.83 Ref.		0.190 Ref.	


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