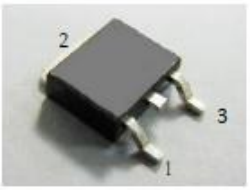
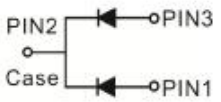
Trench MOS Barrier Schottky Rectifier

Reverse Voltage - 150 V

Forward Current - 20 A

lead-free ROHS





TO-252(D-PAK)

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-252(D-PAK)
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.32g / 0.011oz

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

Parameter		Symbols	Value	Units
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	150	V
Maximum RMS voltage		V_{RMS}	150	V
Maximum DC Blocking Voltage		V_{DC}	150	V
Maximum Average Forward Rectified Current	Per diode	$I_{F(AV)}$	20	A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave superimposed on rated load per diode		I_{FSM}	220	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)	TO-252	$R_{\theta JA}$	8	°C/W

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

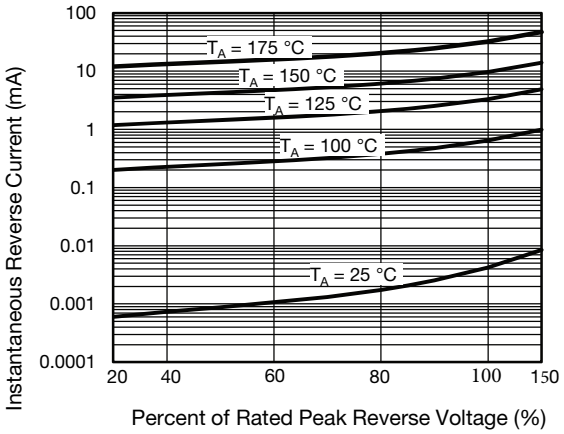
Electrical Characteristics (Per Leg) unless otherwise specified

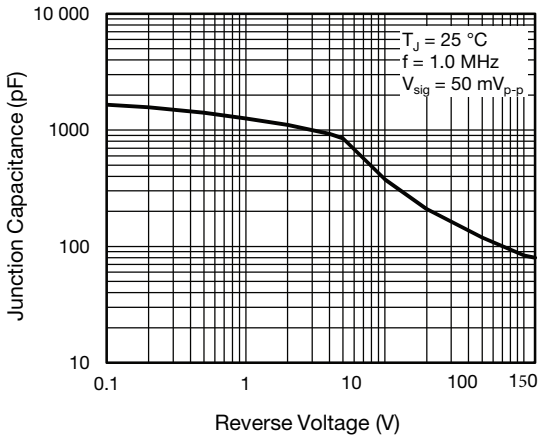
Characteristics		Symbols	Value		Units
Forward Voltage Drop(Note2)			Typ	Max	
at I_F=2A Instantaneous forward voltage per diode	TA=25°C	V_F	0.47	-	V
	TA=125°C		0.40	-	
at I_F=10A Instantaneous forward voltage per diode	TA=25°C		0.71	0.80	
	TA=125°C		0.65	0.72	
Instantaneous reverse current per diode at rated reverse voltage	TA=25°C	I_R	-	100	uA
	TA=125°C		30	-	mA

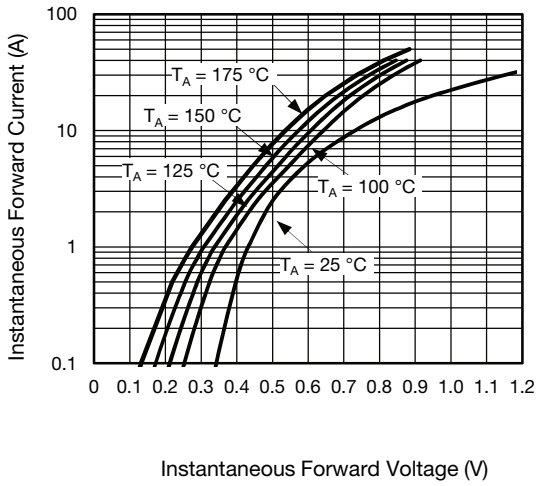
Note2: (1)Pulse test: 300 μs pulse width, 1 % duty cycle
(2) Pulse test: Pulse width ≦ 40 ms

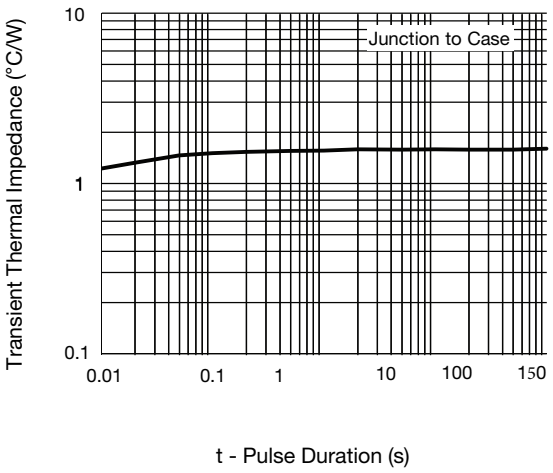
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RATINGS AND CHARACTERISTIC CURVES



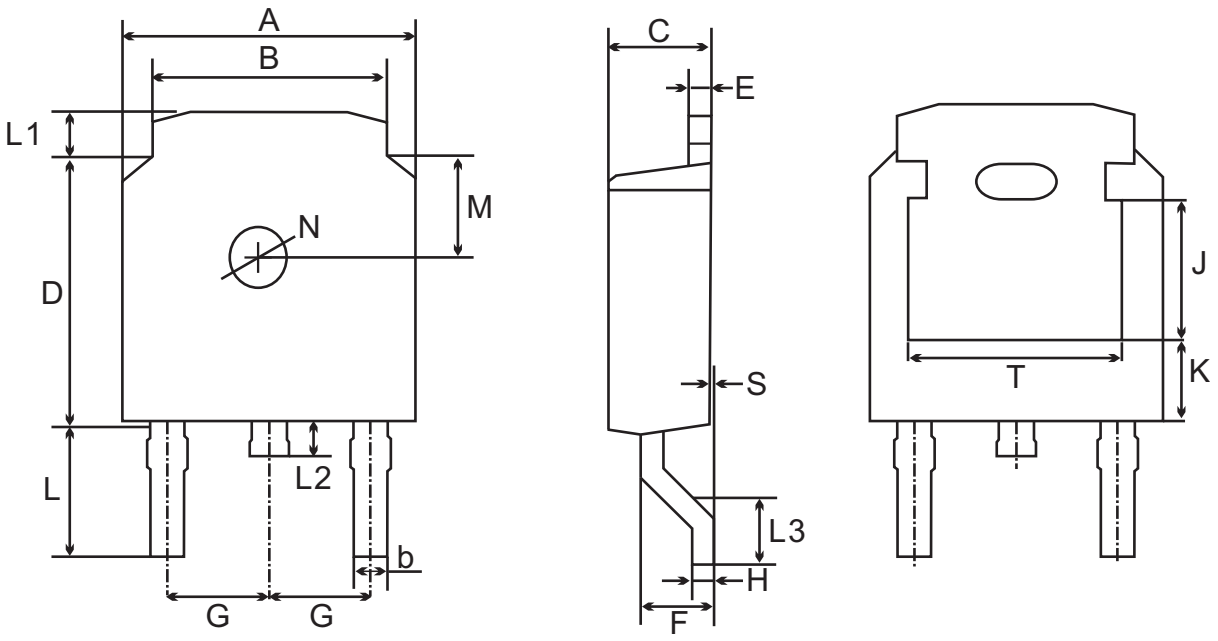






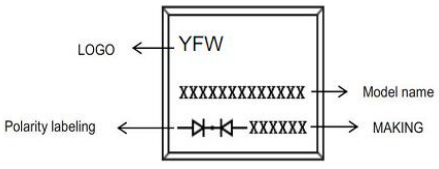
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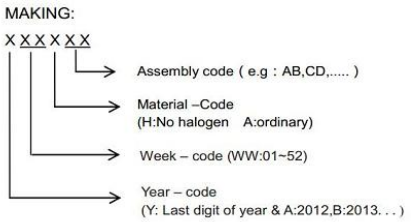
Package Outline TO-252(D-PAK)



UNIT		A	B	b	C	D	E	F	G	H	L	L1	L2	L3	S	M	N	J	K	T
mm	max	6.7	5.5	0.8	2.5	6.3	0.6	1.8	2.29 TYPICAL	0.55	3.1	1.2	1.0	1.75	0.1	1.8 TYPICAL	1.3 TYPICAL	3.16 ref.	1.80 ref.	4.83 ref.
	min	6.3	5.1	0.3	2.1	5.9	0.4	1.3		0.45	2.7	0.8	0.6	1.40	0.0					
mil	max	264	217	31	98	248	24	71	90 TYPICAL	22	122	47	39	69	4	71 TYPICAL	51 TYPICAL	124 ref.	71 ref.	190 ref.
	min	248	201	12	83	232	16	51		18	106	31	24	55	0					

Marking on the body





Summary of Packing Options

Package	Packing Description	Packing Quantity	Industry Standard
TO-252(D-PAK)	Tape/Reel,13”reel	2500	EIA-481-1

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