

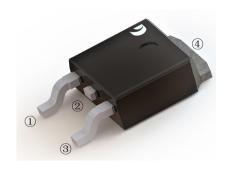
LOW VF SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE - 100 Volts FORWARD CURRENT - 5.0 Amperes

FEATURES

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

TO-252(D-PAK)





MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	VALUE	UNIT	
Maximum repetitive peak reverse voltage		VRRM	100	V
Maximum rms voltage		VRMS	70	V
Maximum average forward rectified current		l f(AV)	5	Α
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load		İFSM	150	А
Typical junction capacitance (VR=4V, f=1MHz)		CJ	620	pF
Typical thermal resistance	(Note 1)	Rejc	55	°C/W
Operating junction temperature range		Tu	-55 to + 125	°C
Storage temperature range		Тѕтс	-55 to + 150	°C

Note: 1. Mounted on infinite heatsink.

ELECTRICAL CHARACTERISTICS(Ta=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONE	DITIONS	MIN.	TYP.	MAX.	UNIT
Breakdown voltage per diode	V _{BR}	I R=0.5mA		100	-	-	V
Instantaneous forward voltage per diode	VF	IF=2A IF=3A IF= 5A IF=2A IF=3A IF= 5A	TJ=25°C TJ=125°C		0.42 0.46 0.53 0.38 0.41 0.49	- 0.55 - -	V
Reverse current per diode	l R	V _R =70V		-	5	-	μА
The voice current per diede		V _R =100V	TJ=25°C TJ=125°C	-	- 5.5	100 -	μA mA

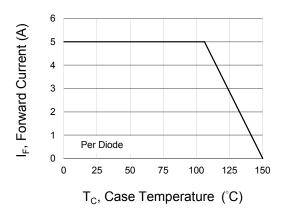


Fig.1 Forward Current Derating Curve

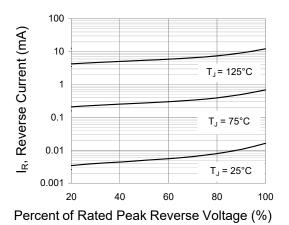


Fig.3 Typical Reverse Characteristics

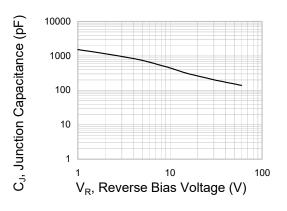


Fig.2 Typical Junction Capacitance

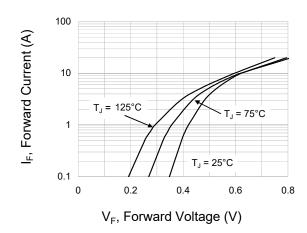


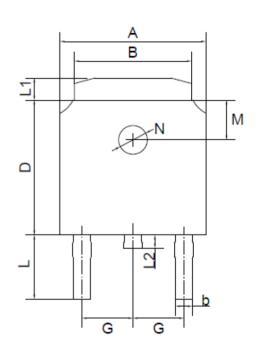
Fig.4 Typical Forward Characteristics

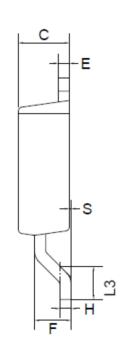
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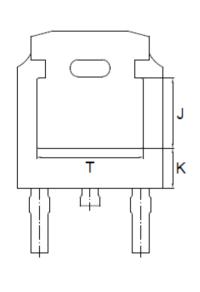
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TO-252(D-PAK) Package Outline Dimensions







TO-252(D-PAK) mechanical data

UN	IIT	Α	В	b	С	D	Е	F	G	Н	L	L1	L2	L3	S	М	N	J	K	Т
mm	max	6.7	5.5	0.8	2.5	6.3	0.6	1.8	2.29	0.55	3.1	1.2	1.0	1.75	0.1	1.8	1.3	3.16	1.80	4.83
mm	min	6.3	5.1	0.3	2.1	5.9	0.4	1.3	TYPICAL	0.45	2.7	8.0	0.6	1.40	0.0	TYPICAL	TYPICAL	ref.	ref.	ref.
il	max	264	217	31	98	248	24	71	90	22	122	47	39	69	4	71	51	124	71	190
mil	min	248	201	12	83	232	16	51	TYPICAL	18	106	31	24	55	0	TYPICAL TYP	TYPICAL	ref.	ref.	ref.

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