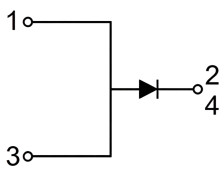
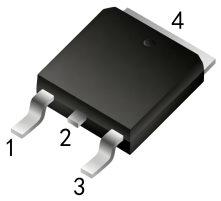
Superfast Recovery Rectifiers

Parameter	Value	Unit
V_{RRM}	400	V
$I_{F(AV)}$	20	A





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Features

- High current capability
- Low forward voltage drop
- Low power loss, high efficiency
- High surge capability

Applications

- Typical applications are in switching power supplies, converters, freewheeling diodes, and reverse battery protection.

Absolute Maximum Ratings(Ta=25℃,unless otherwise noted)

Parameter	Symbol	Value	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	400	V
Maximum RMS Bridge Input Voltage	V_{RMS}	280	V
Maximum DC Blocking Voltage	V_{DC}	400	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	20	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	180	A
Maximum Forward Voltage at 20A DC	V_F	1.4	V
Maximum DC Reverse Current T_A=25℃	I_R	1.0	μA
at Rated DC Blocking Voltage T_A=125℃		300	μA
Maximum Reverse Recovery Time (Note1)	T_{RR}	35	ns
Operating Temperature Range	T_J	-55 to +150	℃
Storage Temperature Range	T_{STG}	-55 to +150	℃

Notes:
1.Measured with IF=0.5A, IR=1A, Irr=0.25A

Typical Characteristics

Fig.1 Maximum Average Forward Current Rating

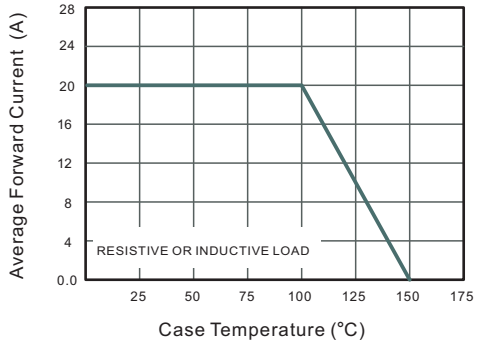


Fig.2 Typical Reverse Characteristics

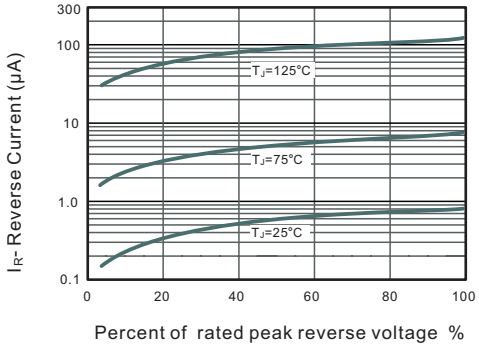


Fig.3 Typical Forward Characteristics

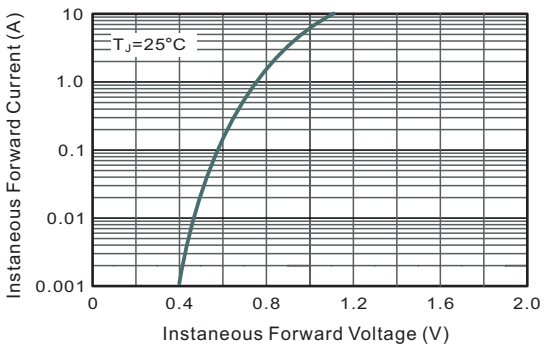
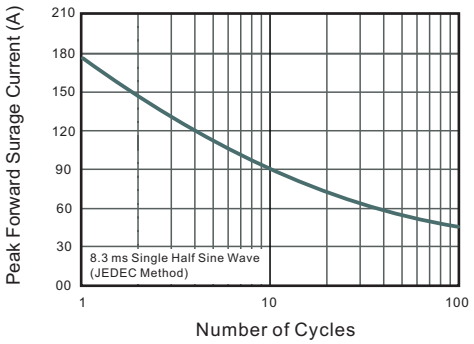


Fig.4 Maximum Non-Repetitive Peak Forward Surage Current



Package Outlines

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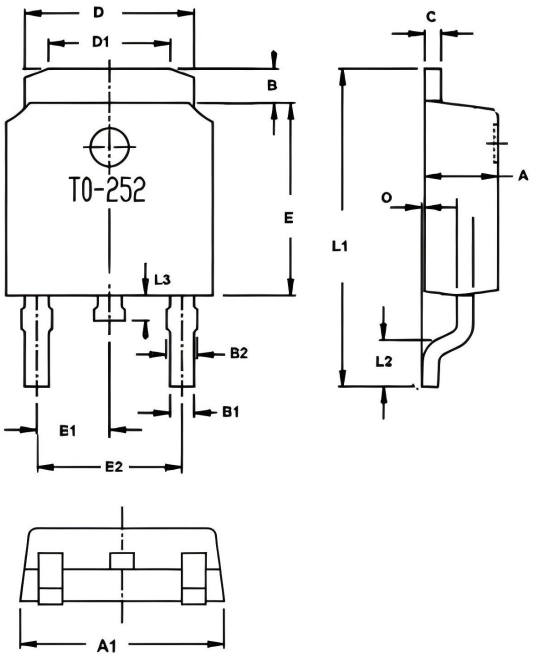

Dim.	Min.	Max.
A	2.1	2.5
A1	6.3	6.9
B	0.95	1.55
B1	0.6	0.8
B2	0.75	0.95
C	Typ0.5	
D	5.3	5.5
D1	3.65	4.05
E	5.8	6.4
E1	Typ2.3	
E2	Typ4.6	
O	0	0.15
L1	9	11
L2	Typ1.5	
L3	0.7	1.0
Dimensions in mm		

*Important Usage Information and Disclaimer

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