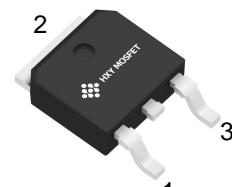




Features

- Low forward voltage drop
- High efficiency and low power loss
- High volume of current and good capability of surge current

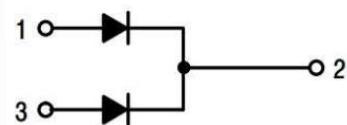


TO-252-2L

Application

- Freewheeling diodes
- DC/DC converters

PIN CONNECTIONS



Maximum Ratings (Ta=25°C unless otherwise noted)

Symbol	Parameters	Ratings	Unit
V _{RRM}	Repetitive Peak Reverse Voltage	100	V
V _{RWM}	Working peak reverse voltage	100	V
V _R	Maximum DC blocking voltage	100	V
I _{F(AV)}	Maximum average forward rectified current Total device	20	A
I _{FSM}	Peak Forward Surge Current	150	A
T _j	Operating junction temperature range	175	°C
T _{stg}	Storage temperature range	-55~175	°C

Electrical Characteristics (Ta=25°C unless otherwise specified)

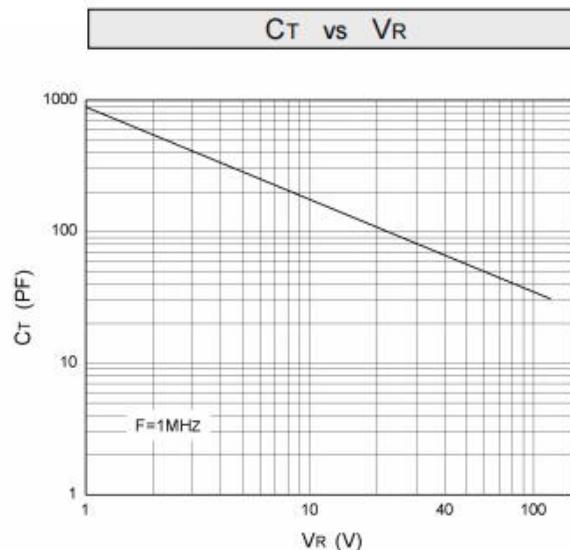
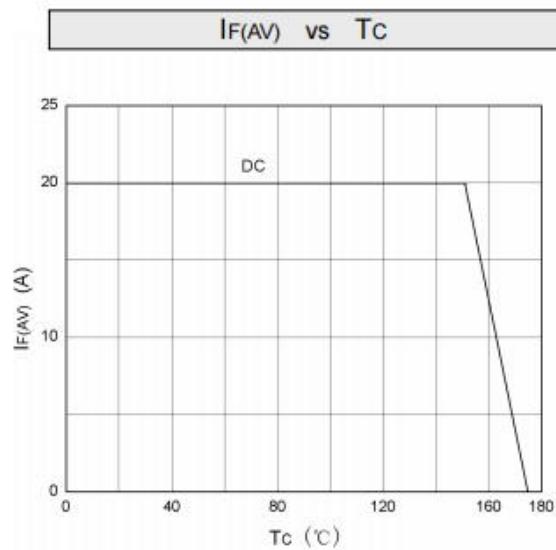
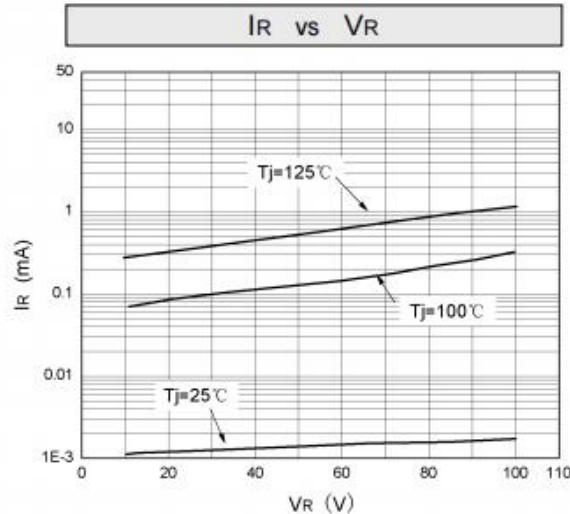
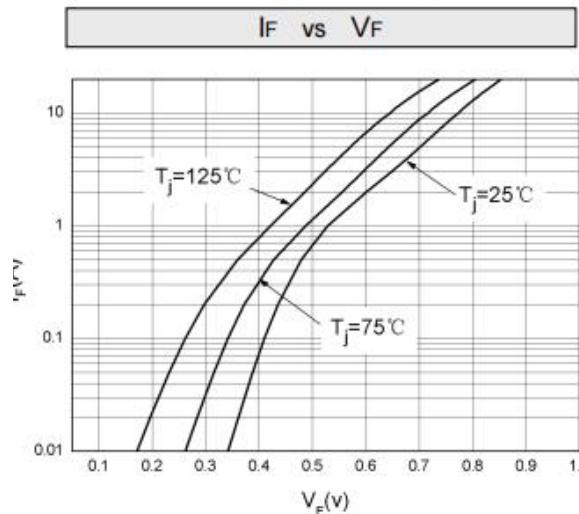
Symbol	Parameters	Min	Typ	Max	Units	Conditions
I _R	Maximum Reverse Leakage Current (Note 1)	--	--	15	uA	V _R =V _{RRM} T _C = 25 °C
V _F	Maximum Instantaneous Forward Voltage (Note 2)	--	0.83	0.85	V	I _F = 10 A, T _C = 25 °C
R _{th(j-c)}	Typical Thermal Resistance, Junction to Case	--	--	3.0	°C/W	
dV/dt	Voltage Rate of Change	--	--	10000	V/μs	

Note 1: 2.0uS Pulse Width, f=1.0KHz

Note 2: Pulse Test : 300us Pulse Width, 1% Duty Cycle

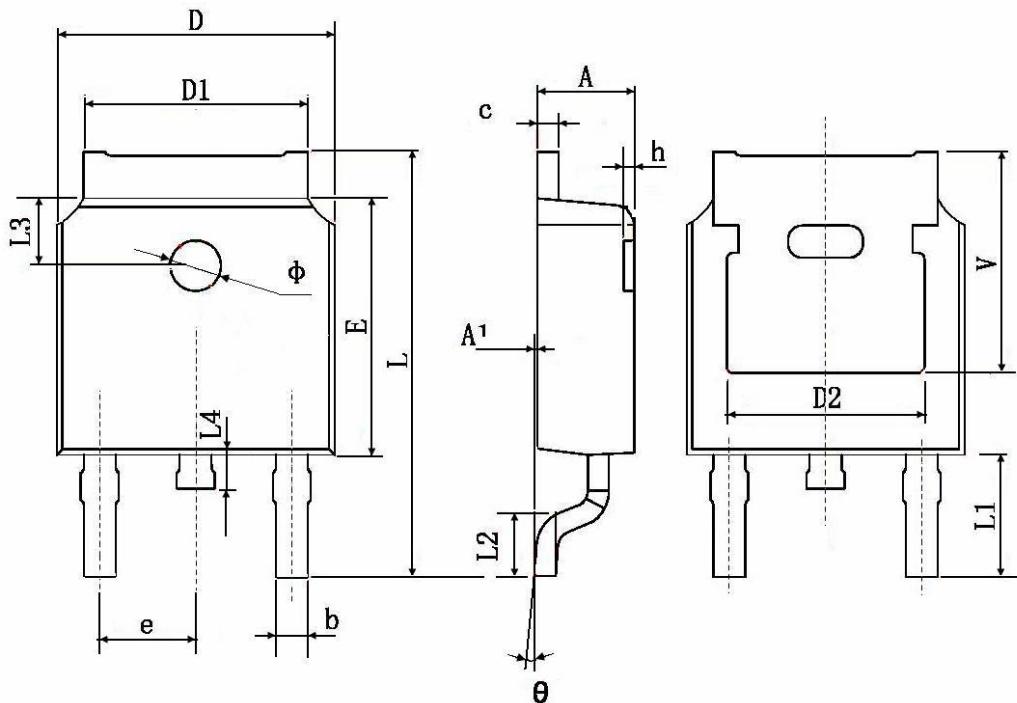


Typical Characteristics





TO-252-2L Package Information



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	2.200	2.400	0.087	0.094
A1	0.000	0.127	0.000	0.005
b	0.660	0.860	0.026	0.034
c	0.460	0.580	0.018	0.023
D	6.500	6.700	0.256	0.264
D1	5.100	5.460	0.201	0.215
D2	0.483 TYP.		0.190 TYP.	
E	6.000	6.200	0.236	0.244
e	2.186	2.386	0.086	0.094
L	9.800	10.400	0.386	0.409
L1	2.900 TYP.		0.114 TYP.	
L2	1.400	1.700	0.055	0.067
L3	1.600 TYP.		0.063 TYP.	
L4	0.600	1.000	0.024	0.039
Φ	1.100	1.300	0.043	0.051
θ	0°	8°	0°	8°
h	0.000	0.300	0.000	0.012
V	5.350 TYP.		0.211 TYP.	



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