



## Features

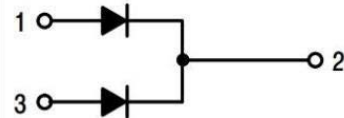
- Low forward voltage drop
- High efficiency and low power loss
- High volume of current and good capability of surge current



## Application

- Freewheeling diodes
- DC/DC converters

### PIN CONNECTIONS



## Maxmim 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

## Electrcal Characteristics (Ta=25°C unless otherwise specified)

Symbol	Parameters	Min	Typical	Max	Units	Conditions
$I_R$	Maximum Reverse Leakage Current (Note 1)	--	--	15	uA	$V_R = V_{RRM}$ $T_C = 25\text{ }^\circ\text{C}$
$V_F$	Maximum Instantaneous Forward Voltage (Note 2)	--	0.83	0.85	V	$I_F = 10\text{ A}$ , $T_C = 25\text{ }^\circ\text{C}$
$R_{th(j-c)}$	Typical Thermal Resistance, Junction to Case	--	--	3.0	°C/W	
dV/dt	Voltage Rate of Change	--	--	10000	V/μs	

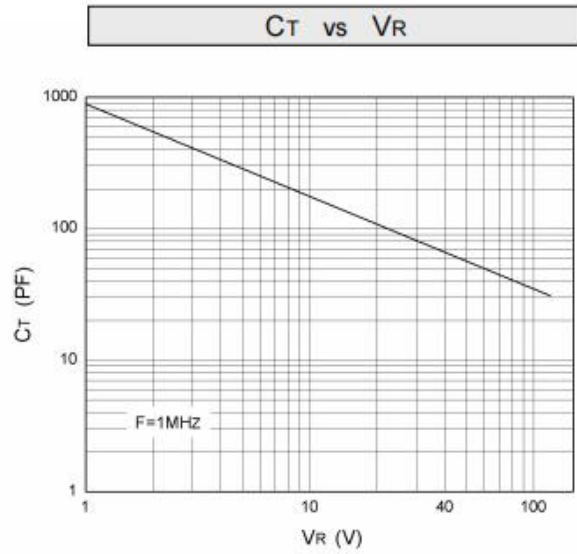
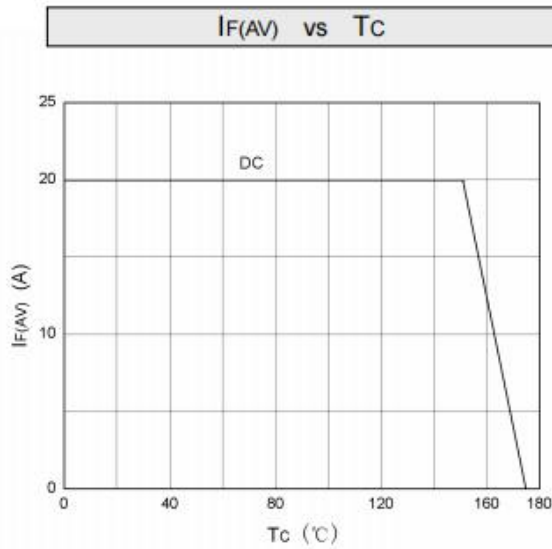
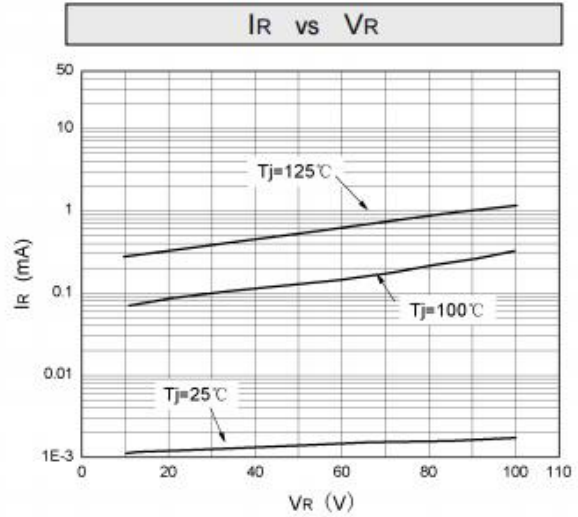
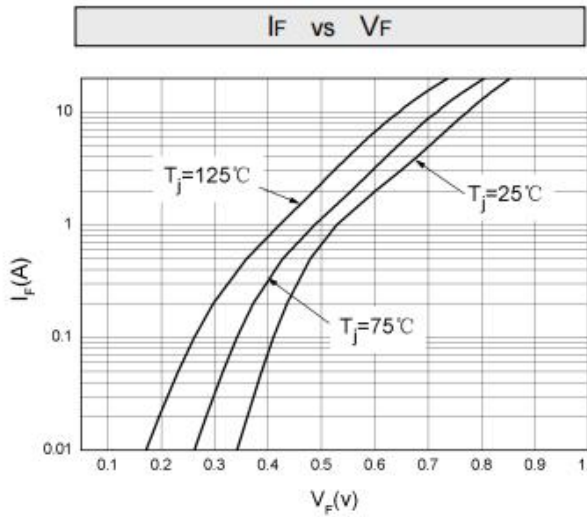
Note 1: 2.0uS Pulse Width, f=1.0KHz

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



## Typical Characteristics

### ELECTRICAL CHARACTERISTICS (curves)







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