

APPLICATIONS

- ¶ Motion/servo control
- ¶ Inverter and power supplies

Unit

W

Unit
V

I²t

T_J=125 , t=10ms, V_R=0V

1800

A²S

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Unit

μA

mA

nA

Unit
V

Unit
V
V
 μ A
mA
K/W

Unit

W

Unit
V

$I_{F(AVR)}$

I^2t

$T_J=125^\circ\text{C}$, $t=10\text{ms}$, $V_R=0\text{V}$

800

A^2S

FRMR

0V, (T)Tj 6.6 0 0 6.63146932 77791203 Tm J R =50A , V

Unit

F

μA
mA
nA

0V, (T)Tj 6.6 0 0 6.63146932 618.2403 Tm J R=50A , V

F

μC
nF
pF
ns
ns
ns
ns
ns
ns
ns
ns
ns
ns
ns
ns
ns
ns
ns
ns
ns
mJ
mJ
mJ
mJ

K /W

Unit

t_{rr}	Reverse Recovery Time	$I_F=50A, V_R=600V$	270	ns
I_{RRM}		$di_F/dt=-1200A/\mu s$		A
E_{rec}	Reverse Recovery Energy	$T_J=150$	3.6	mJ
R_{thJC}	Junction to Case Thermal Resistance (Per Die)		0.72	K /W

Unit
K
K

Unit

		Rectifier	150	
			-40~125	
V_{isol}	Isolation Breakdown Voltage	AC, 50Hz(R.M.S), t=1minute	3000	V
CTI	Comparative Tracking Index		>200	
Md	Mounting Torque	Recommended ~ M5 ~	2.5~5	Nm
Weight			300	g

$I_c(A)$

$V_{CE} \sim V$

Figure 1. Typical Output Characteristics IGBT-inverter

$I_c(A)$

$V_{CE} \sim V$

Figure 2. Typical Output Characteristics IGBT-inverter

$I_F(A)$

V_F

$I_F(A)$

$V_F(V)$

Figure 13. Diode Forward Characteristics
Diode - brake chopper

$I_C(A)$

$R()$

$T_C()$

Figure 14. NTC Characteristics

Figure 17. Circuit Diagram

