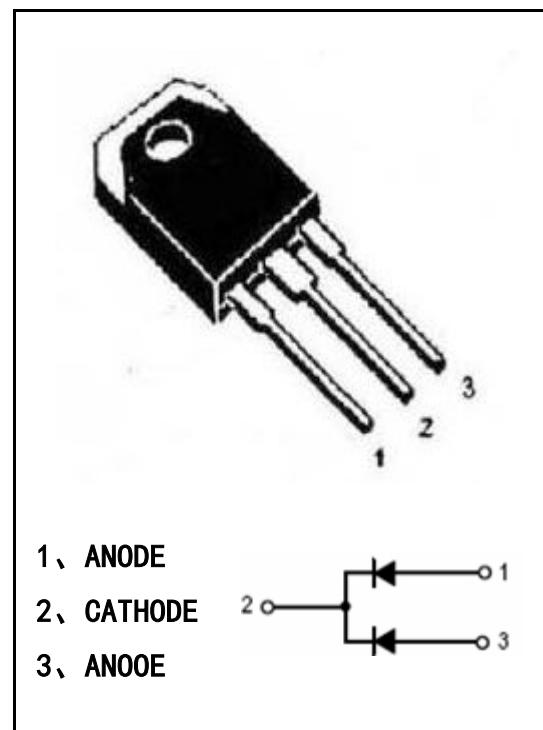


■ PRODUCT FEATURES

- Ultrafast Recovery Time
- Soft Recovery Characteristics
- Low Recovery Loss
- Low Forward Voltage
- High Surge Current Capability
- Low Leakage Current

■ APPLICATIONS

- Freewheeling, Snubber, Clamp
- Inversion Welder
- PFC
- Plating Power Supply
- Ultrasonic Cleaner and Welder
- Converter & Chopper
- UPS



ABSOLUTE MAXIMUM RATINGS

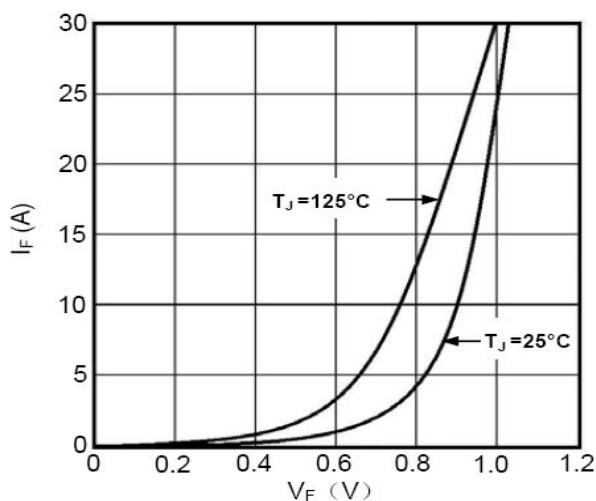
$T_c=25^\circ C$ unless otherwise specified

Symbol	Parameter	Test Conditions	Max.	Unit
V_R	D.C. Reverse Voltage		200	V
V_{RRM}	Repetitive Reverse Voltage		200	V
$I_{F(AV)}$ (per leg)	Average Forward Current	$T_c=110^\circ C$	10	A
			20	
I_{FSM}	Non-Repetitive Surge Forward Current	$T=10ms$, Sine	150	A
T_J	Junction Temperature		-55 to +150	°C
T_{STG}	Storage Temperature Range		-55 to +150	°C

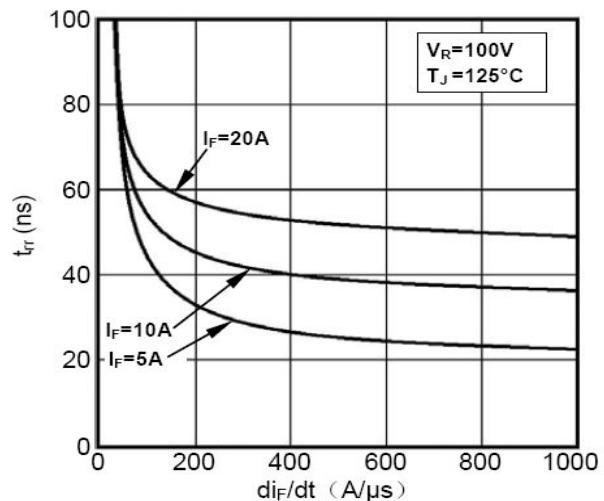
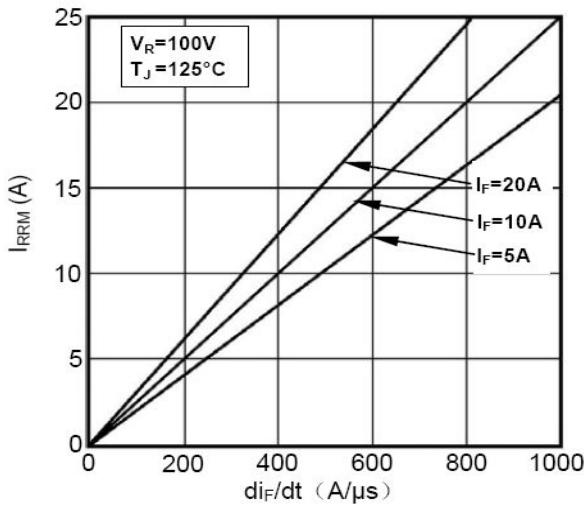
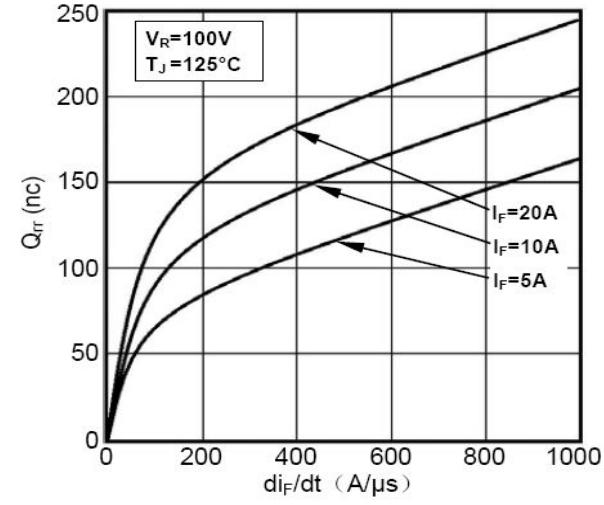
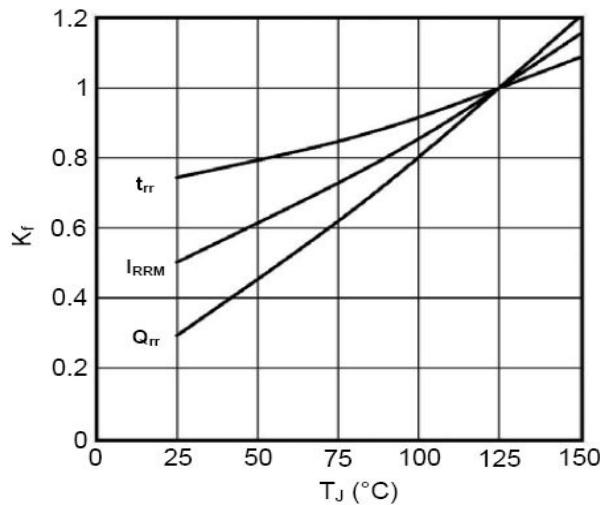
ELECTRICAL AND THERMAL CHARACTERISTICS

$T_c=25^\circ C$ unless otherwise specified

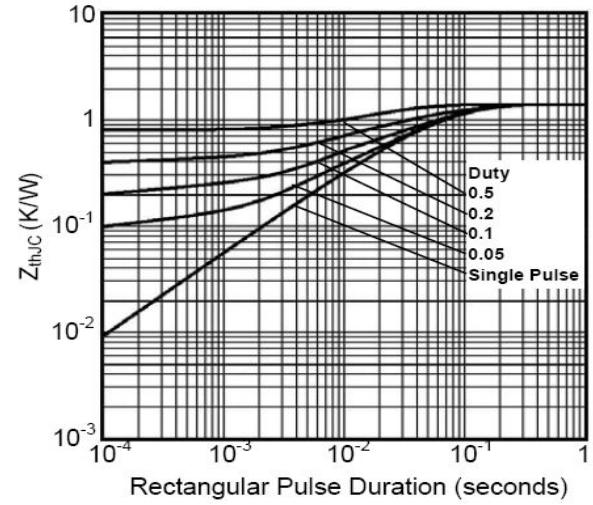
Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
I_{RM}	Reverse Leakage Current	$V_R=200V$, $T_J=25^\circ C$	--	--	25	µA
		$V_R=200V$, $T_J=125^\circ C$	--	--	100	µA
V_F	Forward Voltage	$I_F=10A$, $T_J=25^\circ C$	--	0.95	1.1	V
		$I_F=10A$, $T_J=125^\circ C$	--	--	0.95	V
t_{rr}	Reverse Recovery Time ($I_F=1A$, $V_R=30V$, $di_F/dt=-200A/\mu s$)		18	20	24	ns
t_{rr}	Reverse Recovery Time	$I_F=10A$ $VR=100V$ $diF/dt=-200A/\mu s$	$T_J=25^\circ C$	--	35	ns
t_{rr}	Reverse Recovery Time		$T_J=125^\circ C$	--	48	ns
I_{RRM}	Max. Reverse Recovery Current		$T_J=125^\circ C$	--	6	A



Forward Voltage Drop vs Forward Current

Reverse Recovery Time vs diF/dt Reverse Recovery Current vs diF/dt Reverse Recovery Charge vs diF/dt 

Dynamic Parameters vs Junction Temperature



Transient Thermal Impedance

T0-3P MECHANICAL DATA
UNIT: mm

SYMBOL	MIN	NOM	MAX	SYMBOL	MIN	NOM	MAX
A	15.2		15.8	J	3.3		3.9
B	12.2		12.8	K	1.8		2.2
C	9.7		10.3	L	2.8		3.2
D	3	3.2	3.4	M	0.8		1.2
E	4.7		5.3	N	5.2	5.45	5.7
F	19		19.6	O	4.6		5.2
G	17.8		18.4	P	1.8		2.3
H	13.6		14.3	Q	2.6		3.3
I	19.5		20.5	R	0.5		0.7

