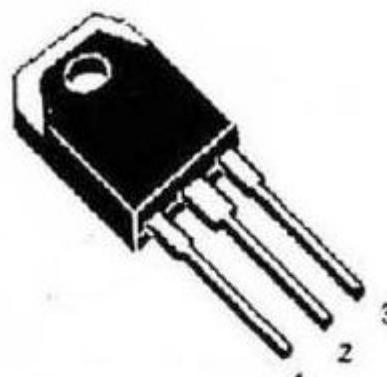


■ PRODUCT FEATURES

- 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



1、ANODE

2、CATHODE

3、ANODE

ABSOLUTE MAXIMUM RATINGS

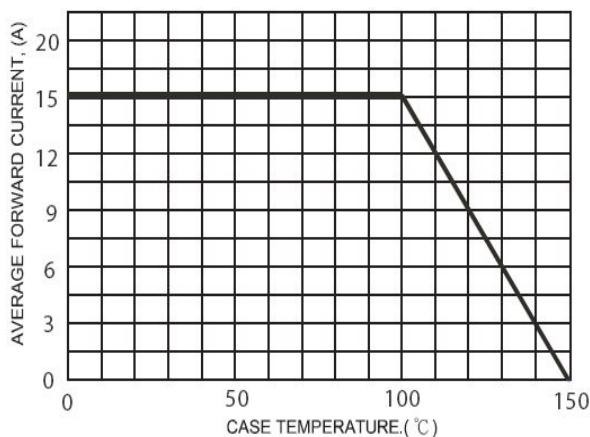
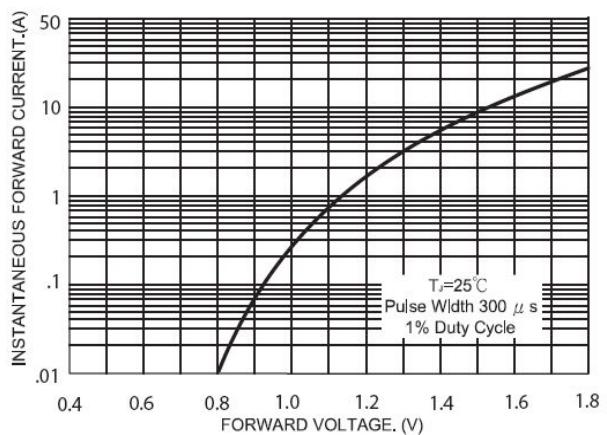
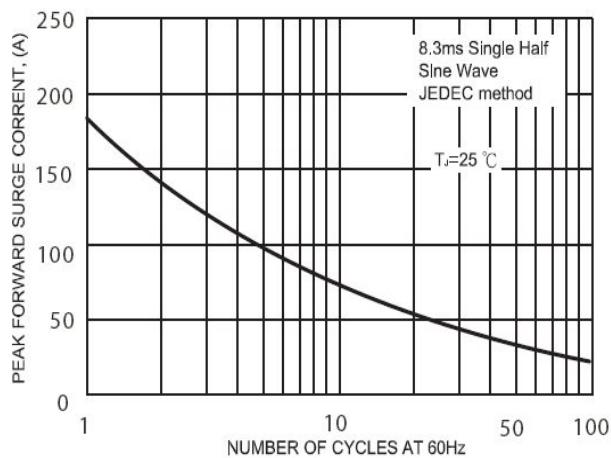
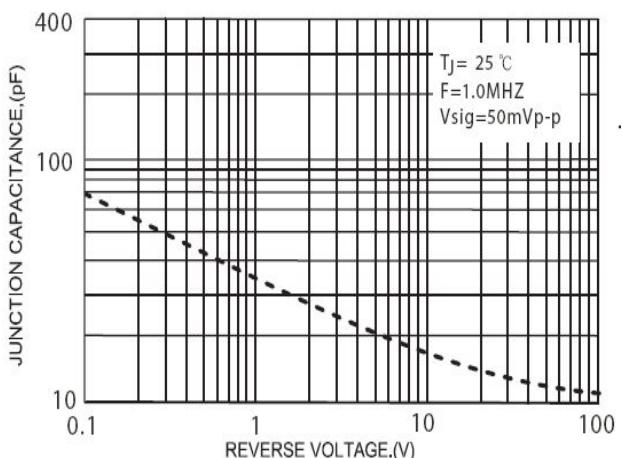
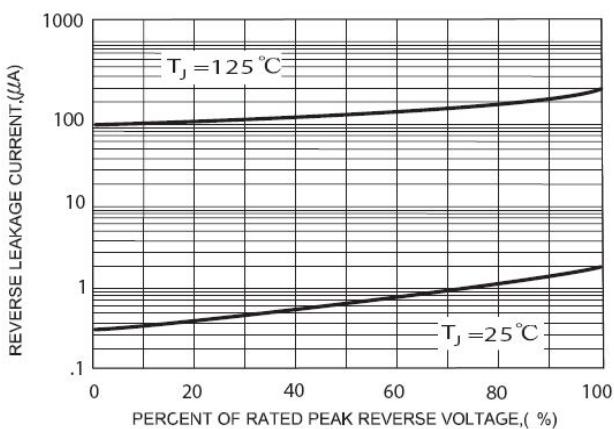
$T_c=25^\circ C$ unless otherwise specified

Symbol	Parameter	Test Conditions	Max.	Unit
V_R	D.C. Reverse Voltage		600	V
V_{RRM}	Repetitive Reverse Voltage		600	V
$I_{F(AV)}$ (per leg)	Average Forward Current	$T_c=90^\circ C$, Duty=0.5	15	A
			30	A
I_{FM}	Peak Repetitive Forward Current	$T_c=110^\circ C$, Duty=0.5	25	A
I_{FSM}	Non-Repetitive Surge Forward Current	$T=45^\circ C$, 8.3ms,	110	A
T_J	Junction Temperature		-55 to +175	°C
T_{STG}	Storage Temperature Range		-55 to +175	°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	$V_R=600V$, $T_J=25^\circ C$	--	--	20	μA
		$V_R=600V$, $T_J=125^\circ C$	--	--	250	μA
V_F	Forward Voltage	$I_F=15A$, $T_J=25^\circ C$	--	1.4	1.7	V
		$I_F=15A$, $T_J=125^\circ C$	--	1.2	--	V
t_{rr}	Reverse Recovery Time ($I_F=1A$, $V_R=30V$, $dI_F/dt=-200A/\mu s$)		--	30	--	ns
t_{rr}	Reverse Recovery Time	$I_F=15A$ $VR=400V$ $dI_F/dt=-200A/\mu s$	$T_J=25^\circ C$	--	40	ns
t_{rr}	Reverse Recovery Time		$T_J=125^\circ C$	--	80	ns
Q_{rr}	Reverse Recovery Charge		$T_J=125^\circ C$	--	120	nC
I_{RRM}	Max. Reverse Recovery Current		$T_J=125^\circ C$	--	3	A


TYPICAL FORWARD CORRECT DERATING CUVE

TYPICAL FORWARD CHARACTERISTICS

MAXIMUN NON-REPETITIVE FORWARD SURGE CURRENT

TYPICAL JUNCTION CAPACITANCE

TYPICAL REVERSE CHARACTERISTICS

TO-3P MECHANICAL DATA

		UNIT: mm	
SYMBOL	NOM	SYMBOL	NOM
A	15.5	J	3.6
B	12.5	K	2.0
C	10.0	L	3.0
D	3.2	M	1.0
E	5.0	N	5.45
F	19.3	O	4.9
G	18.1	P	2.0
H	13.9	Q	2.9
I	20.0	R	0.6

