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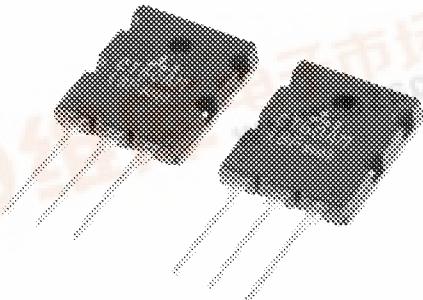
MITSUBISHI Nch IGBT

PRELIMINARY
Notice: This is not a final specification.
Some parametric limits are subject to change.

CT60AM-18F

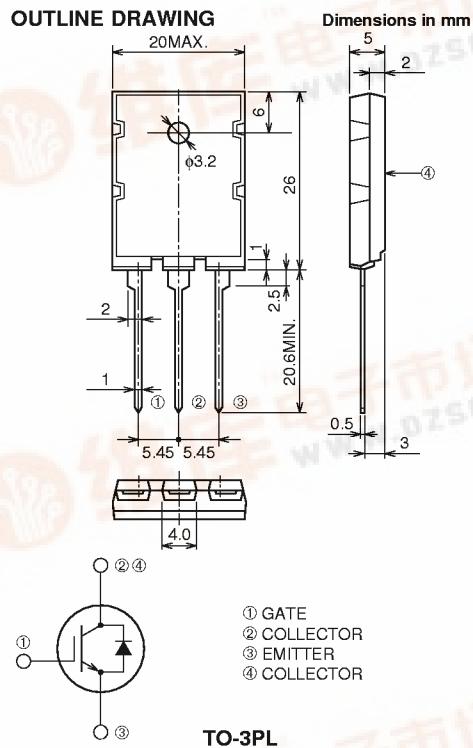
INSULATED GATE BIPOLAR TRANSISTOR

CT60AM-18F



- V_{CES} 900V
- I_C 60A
- Simple drive
- Integrated Fast-recovery diode
- Small tail loss
- Low V_{CE} Saturation Voltage

OUTLINE DRAWING



APPLICATION

Microwave oven, Electromagnetic cooking devices, Rice-cookers, Voltage-resonant inverter circuit electric appliances

MAXIMUM RATINGS ($T_c = 25^\circ\text{C}$)

Symbol	Parameter	Conditions	Ratings	Unit
V _{CES}	Collector-Emitter Voltage	V _{GE} = 0V	900	V
V _{GES}	Gate-Emitter Voltage		±25	V
V _{GEM}	Peak Gate-Emitter Voltage		±30	V
I _C	Collector Current		60	A
I _{CM}	Collector Current (Pulse)		120	A
I _E	Emitter Current		40	A
P _C	Maximum Power Dissipation		180	W
T _j	Junction Temperature		-40 ~ +150	°C
T _{sg}	Storage Temperature		-40 ~ +150	°C

Sep.1998

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ELECTRICAL CHARACTERISTICS ($T_{ch} = 25^\circ\text{C}$)

Symbol	Parameter	Test conditions	Limits			Unit
			Min.	Typ.	Max.	
I_{CES}	Collector cutoff current	$V_{CE} = 900\text{V}$, $V_{GE} = 0\text{V}$	—	—	1.0	mA
I_{GES}	Gate leakage current	$V_{GE} = \pm 20\text{V}$, $V_{CE} = 0\text{V}$	—	—	0.5	μA
$V_{GE(\text{th})}$	Gate-emitter threshold voltage	$V_{CE} = 10\text{V}$, $I_C = 6\text{mA}$	2.0	4.0	6.0	V
$V_{CE(\text{sat})}$	Collector-emitter saturation voltage	$I_C = 60\text{A}$, $V_{CE} = 15\text{V}$	—	2.1	2.7	V
C_{ies}	Input capacitance	$V_{CE} = 25\text{V}$, $V_{GE} = 0\text{V}$, $f = 1\text{MHz}$	—	4400	—	pF
C_{oes}	Output capacitance		—	115	—	pF
C_{res}	Reverse transfer capacitance		—	75	—	pF
$t_{d(on)}$	Turn-on delay time	$V_{CC} = 300\text{V}$, $I_C = 60\text{A}$, $V_{GE} = 15\text{V}$, $R_G = 10\Omega$	—	0.05	—	μs
t_r	Turn-on rise time		—	0.1	—	μs
$t_{d(off)}$	Turn-off delay time		—	0.2	—	μs
t_f	Turn-off fall time		—	0.2	—	μs
E_{tail}	Tail loss	$I_{CP} = 60\text{A}$, $T_J = 125^\circ\text{C}$, $dv/dt = 200\text{V}/\mu\text{s}$	—	0.6	1.0	mJ/pls
I_{tail}	Tail current		—	8	12	A
V_{EC}	Emitter-collector voltage		—	2.2	3.0	V
t_{rr}	Diode reverse recovery time	$I_E = 60\text{A}$, $di/dt = -20\text{A}/\mu\text{s}$	—	0.5	2.0	μs
$R_{th(j-c)}$	Thermal resistance (IGBT)	Junction to case	—	—	0.69	$^\circ\text{C}/\text{W}$
$R_{th(j-c)}$	Thermal resistance (Diode)	Junction to case	—	—	4.0	$^\circ\text{C}/\text{W}$

