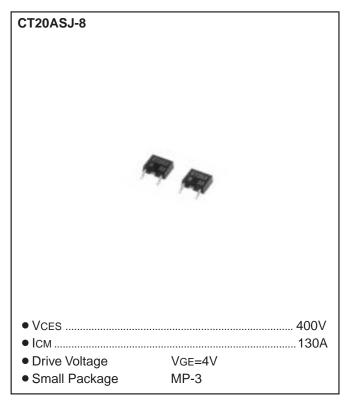
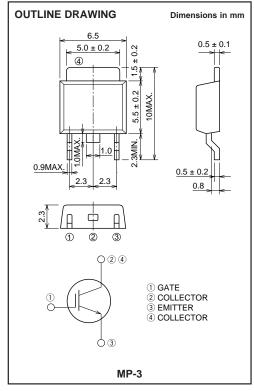
#### MITSUBISHI INSULATED GATE BIPOLAR TRANSISTOR

# CT20ASJ-8

STROBE FLASHER USE





## **APPLICATION**

Strobe Flasher.

## MAXIMUM RATINGS (Tc = 25°C)

Symbol	Parameter	Conditions	Ratings	Unit
VCES	Collector-emitter voltage	VGE = 0V	400	V
VGES	Gate-emitter voltage		±6	V
VGEM	Peak gate-emitter voltage		±8	V
Ісм	Collector current (Pulsed)	See figure 1	130	Α
Tj	Junction temperature		-40 ~ <b>+</b> 150	°C
Tstg	Storage temperature		-40 ~ +150	°C

#### **ELECTRICAL CHARACTERISTICS** (Tj = 25°C)

Symbol	Parameter	Test conditions	Limits			Unit
			Min.	Тур.	Max.	Offic
V(BR)CES	Collector-emitter breakdown voltage	IC = 1mA, VGE = 0V	450	_	_	V
ICES	Collector-emitter leakage current	VCE = 400V, VGE = 0V	_	_	10	μА
IGES	Gate-emitter leakage current	$VGE = \pm 6V, VCE = 0V$	_	_	±0.1	μА
VGE(th)	Gate-emitter threshold voltage	VCE = 10V, IC = 1mA	_	_	1.5	V

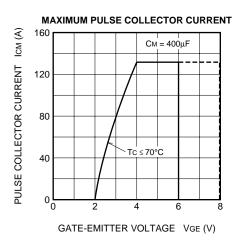


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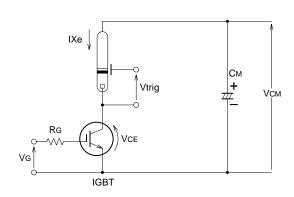
#### STROBE FLASHER USE

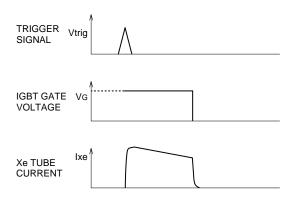
#### PERFORMANCE CURVES



## Figure 1

#### **APPLICATION EXAMPLE**





## RECOMMEND CONDITION MAXIMUM CONDITION

Vcm = 330V	350V
ICP = 120A	130A
$CM = 300 \mu F$	400μF
VGE - 5V	

- Notice 1. Gate drive voltage during on-period must be applied to satisfy the rating of maximum pulse collector current. And reverse gate current during turn-off must be kept less than 0.1A. (In general, it is satisfied if  $Rg \ge 30\Omega$ )
- Notice 2. IGBT has MOS structure and its gate is insulated by thin silicon oxide. So please handle carefully not to suffer from electrostatic charge.
- Notice 3. The operation life should be endured 5,000 shots under the charge current (Ixe  $\leq$  130A : full luminescence condition) of main condenser (CM=400 $\mu$ F). Repetition period under full luminescence condition is over 3 seconds.
- Notice 4. Total operation hours must be applied within 5,000 hours.

