

# CT25ASJ-8

STROBE FLASHER USE

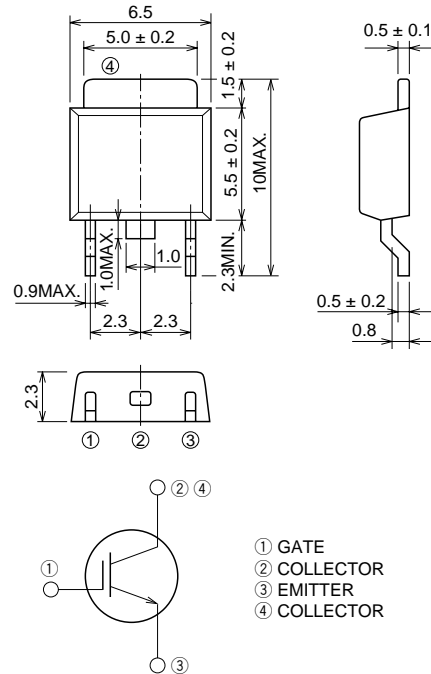
## CT25ASJ-8



- $V_{CES}$  ..... 400V
- $I_{CM}$  ..... 150A
- Drive Voltage  $V_{GE}=4V$
- Small Package MP-3

## OUTLINE DRAWING

Dimensions in mm



MP-3

## APPLICATION

Strobe Flasher.

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

Symbol	Parameter	Conditions	Ratings	Unit
$V_{CES}$	Collector-emitter voltage	$V_{GE} = 0V$	400	V
$V_{GES}$	Gate-emitter voltage		$\pm 6$	V
$V_{GEM}$	Peak gate-emitter voltage		$\pm 8$	V
$I_{CM}$	Collector current (Pulsed)	See figure 1	150	A
$T_j$	Junction temperature		$-40 \sim +150$	$^\circ\text{C}$
$T_{stg}$	Storage temperature		$-40 \sim +150$	$^\circ\text{C}$

## ELECTRICAL CHARACTERISTICS ( $T_j = 25^\circ\text{C}$ )

Symbol	Parameter	Test conditions	Limits			Unit
			Min.	Typ.	Max.	
$V_{(BR)CES}$	Collector-emitter breakdown voltage	$I_C = 1\text{mA}$ , $V_{GE} = 0V$	450	—	—	V
$I_{CES}$	Collector-emitter leakage current	$V_{CE} = 400V$ , $V_{GE} = 0V$	—	—	10	$\mu\text{A}$
$I_{GES}$	Gate-emitter leakage current	$V_{GE} = \pm 6V$ , $V_{CE} = 0V$	—	—	$\pm 0.1$	$\mu\text{A}$
$V_{GE(th)}$	Gate-emitter threshold voltage	$V_{CE} = 10V$ , $I_C = 1\text{mA}$	—	—	1.5	V

## PERFORMANCE CURVES

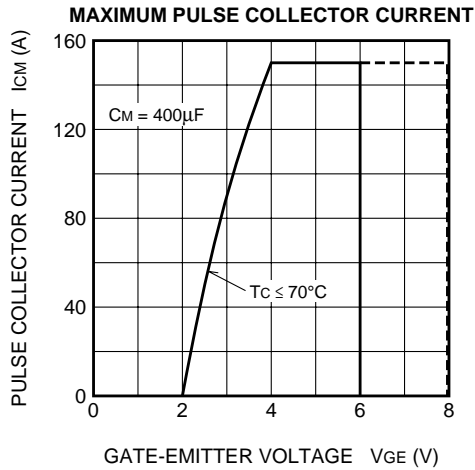
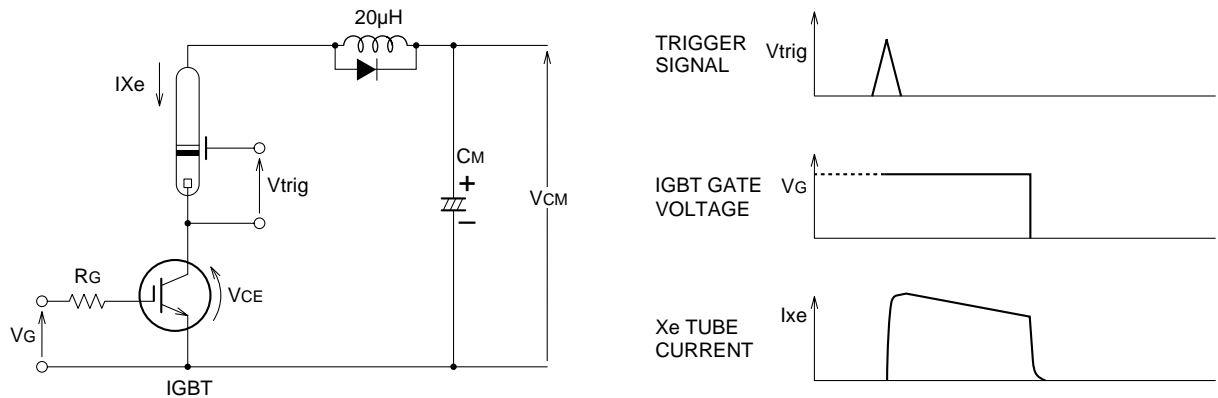


Figure 1

## APPLICATION EXAMPLE



RECOMMEND CONDITION	MAXIMUM CONDITION
$V_{CM} = 330V$	350V
$I_{CP} = 130A$	150A
$C_M = 330\mu F$	400μF
$V_{GE} = 5V$	

- 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  $R_G \geq 30\Omega$ )
- 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 ( $I_{xe} \leq 150A$  : full luminescence condition) of main condenser ( $C_M=400\mu F$ ). Repetition period under full luminescence condition is over 3 seconds.
- Notice 4. Total operation hours must be applied within 5,000 hours.