Regarding the change of names mentioned in the document, such as Mitsubishi Electric and Mitsubishi XX, to Renesas Technology Corp.

The semiconductor operations of Hitachi and Mitsubishi Electric were transferred to Renesas Technology Corporation on April 1st 2003. These operations include microcomputer, logic, analog and discrete devices, and memory chips other than DRAMs (flash memory, SRAMs etc.) Accordingly, although Mitsubishi Electric, Mitsubishi Electric Corporation, Mitsubishi Semiconductors, and other Mitsubishi brand names are mentioned in the document, these names have in fact all been changed to Renesas Technology Corp. Thank you for your understanding. Except for our corporate trademark, logo and corporate statement, no changes whatsoever have been made to the contents of the document, and these changes do not constitute any alteration to the contents of the document itself.

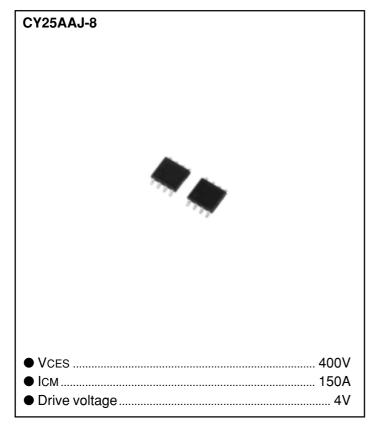
Note: Mitsubishi Electric will continue the business operations of high frequency & optical devices and power devices.

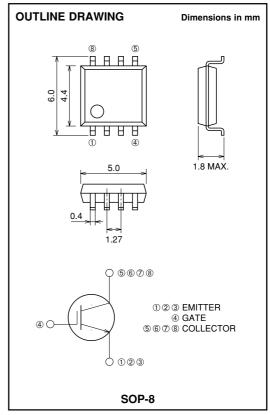
Renesas Technology Corp. Customer Support Dept. April 1, 2003



CY25AAJ-8

Nch IGBT for STROBE FLASHER





APPLICATION

Strobe flasher for Camera

MAXIMUM RATINGS (Tc = 25°C)

Symbol	Parameter	Conditions	Ratings	Unit
VCES	Collector-emitter voltage	VGE = 0V	400	V
VGES	Gate-emitter voltage	VCE = 0V	±6	V
VGEM	Peak gate-emitter voltage	VCE = 0V, tw = 10s	±8	V
Ісм	Collector current (Pulsed)	CM = 400μF see figure1	150	Α
Tj	Junction temperature		-40 ~ +150	°C
Tstg	Storage temperature		− 40 ~ +150	°C

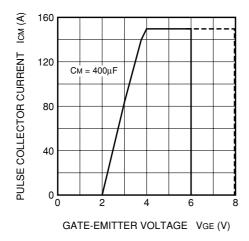


Nch IGBT for STROBE FLASHER

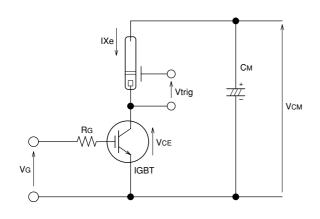
ELECTRICAL CHARACTERISTICS (Tj = 25°C)

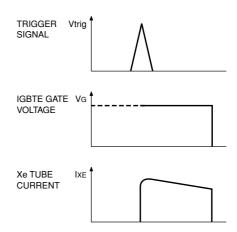
Symbol	Parameter	Test conditions	Limits			Unit
			Min.	Тур.	Max.	Onn
V (BR) CES	Collector-emitter breakdown voltage	IC = 1mA, VGE = 0V	450	_	_	V
ICES	Collector-emitter leakage current	VCE = 400V, VGE = 0V	_	_	10	μΑ
IGES	Gate-emitter leakage current	$VGE = \pm 6V$, $VCE = 0V$	_	_	±0.1	μΑ
VGE (th)	Gate-emitter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

Figure 1. MAXIMUM PULSE COLLECTOR CURRENT



APPLICATION EXAMPLE





Recommended operation conditions Maximum operation conditions

VCM = 350VVCM = 330VICP = 130A ICP = 150A $CM = 330 \mu F$ $\text{CM} = 400 \mu \text{F}$ VGE = 5V

Notice 1. Gate drive voltage during on-state must be applied to satisfy the rating of maximum pulse collector current. And peak reverse gate current during turn-off must become less than 0.1A. (In general, when RG (off) = 30Ω , it is satisfied.)

Notice 2. IGBT has MOS structure and its gate is insulated by thin silicon oxide.

So please handle carefully not to give static electricity.

Notice 3. The operation life should be endured 5,000 shots under the charge current

(Ixe \leq 150A: full luminescence condition) of main condenser (CM = 400 μ F).

Repetitive period under the full luminescence conditions is over 3 seconds.

Notice 4. Total gate operation time must be applied within 5,000 hours.

