

To all our customers

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

MITSUBISHI IGBT
CY25AAJ-8F

Nch IGBT for STROBE FLASHER

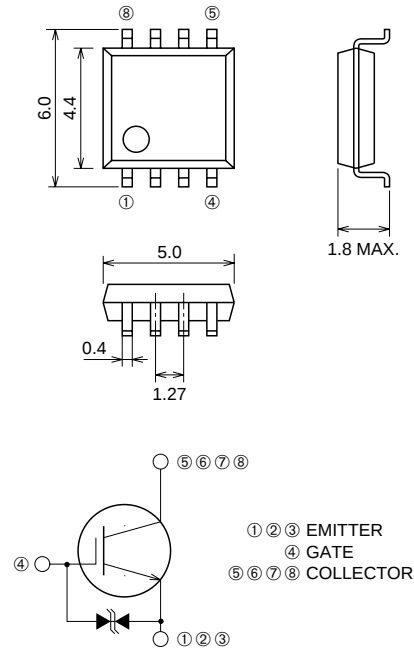
CY25AAJ-8F



- V_{CES} 400V
- I_{CM} 150A
- Drive voltage 4V

OUTLINE DRAWING

Dimensions in mm



SOP-8

APPLICATION

Strobe Flasher for camera

MAXIMUM RATINGS (T_c = 25°C)

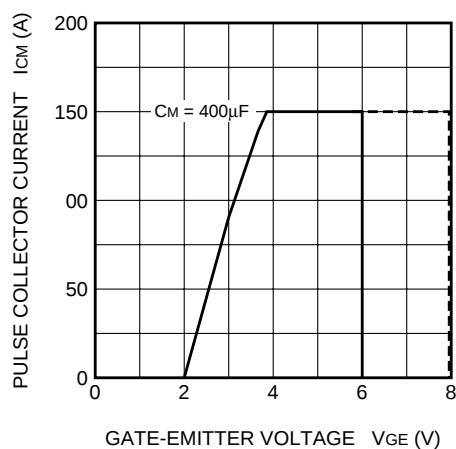
Symbol	Parameter	Conditions	Ratings	Unit
V_{CES}	Collector-emitter voltage	$V_{GE} = 0V$	400	V
V_{GES}	Gate-emitter voltage	$V_{CE} = 0V$	±6	V
V_{GEM}	Peak gate-emitter voltage	$V_{CE} = 0V, t_w = 10s$	±8	V
I_{CM}	Collector current (Pulsed)	$C_M = 400\mu F$ see figure1	150	A
T_j	Junction temperature		-40 ~ +150	°C
T_{stg}	Storage temperature		-40 ~ +150	°C

Sep. 2000

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

Symbol	Parameter	Test conditions	Limits			Unit
			Min.	Typ.	Max.	
$V_{(BR)CES}$	Collector-emitter breakdown voltage	$I_C = 1\text{mA}$, $V_{GE} = 0\text{V}$	450	—	—	V
$V_{(BR)GES}$	Gate-emitter breakdown voltage	$I_G = \pm 100\mu\text{A}$, $V_{CE} = 0\text{V}$	± 8	—	—	V
I_{CES}	Collector-emitter leakage current	$V_{CE} = 400\text{V}$, $V_{GE} = 0\text{V}$	—	—	10	μA
I_{GES}	Gate-emitter leakage current	$V_{GE} = \pm 6\text{V}$, $V_{CE} = 0\text{V}$	—	—	± 10	μA
$V_{GE(th)}$	Gate-emitter threshold voltage	$V_{CE} = 10\text{V}$, $I_C = 1\text{mA}$	—	—	1.5	V

Figure1. MAXIMUM PULSE COLLECTOR CURRENT



APPLICATION EXAMPLE

