

CY25AAJ-8

Nch IGBT for Strobe Flash

REJ03G1376-0200

(Previous: MEJ02G0305-0101)

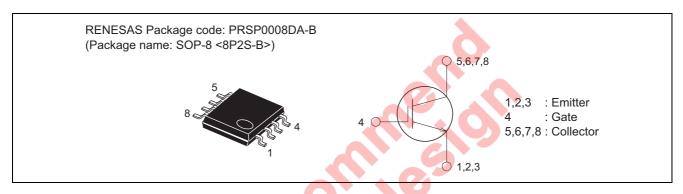
Rev.2.00 Jul 07, 2006

Features

V_{CES}: 400 V
I_{CM}: 150 A

• Drive voltage: 4 V

Outline



Applications

Strobe flash for cameras

Maximum Ratings

 $(Tc = 25^{\circ}C)$

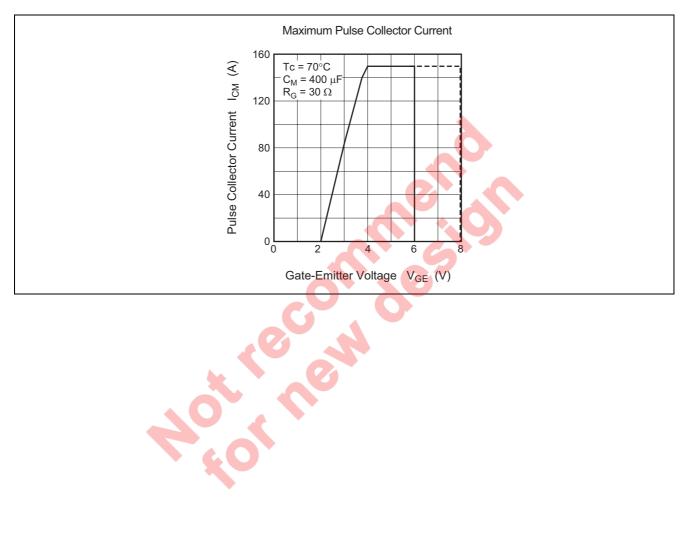
Parameter	Symbol	Ratings	Unit	Conditions
Collector-emitter voltage	V _{CES}	400	V	$V_{GE} = 0 V$
Gate-emitter voltage	V_{GES}	±6	V	$V_{CE} = 0 V$
Peak gate-emitter voltage	V_{GEM}	±8	V	$V_{CE} = 0 \text{ V}, \text{ tw} = 10 \text{ s}$
Collector current (Pulse)	I _{CM}	150	Α	C _M = 400 μF
				(see performance curves)
Junction temperature	Tj	- 40 to +150	°C	
Storage temperature	Tstg	- 40 to +150	°C	

Electrical Characteristics

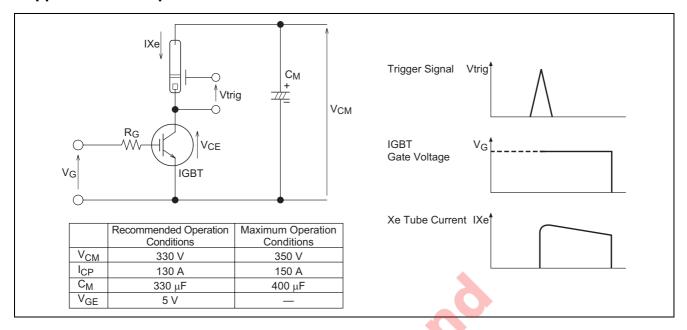
 $(Tj = 25^{\circ}C)$

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

Performance Curves



Application Example



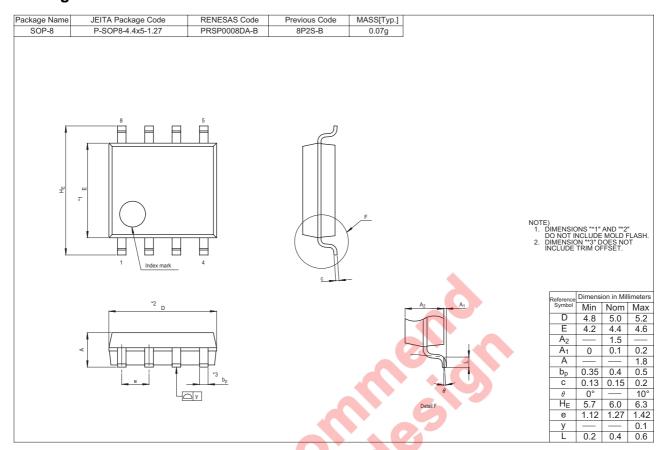
Precautions on Usage

- 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 0.1 A. (In general, when $R_{G \, (off)} = 30 \, \Omega$, it is satisfied.)
- 2. IGBT has MOS structure and its gate is insulated by thin silicon oxide. So please handle carefully not to give static electricity.
- 3. The operation life should be endured 5,000 shots under the charge current ($I_{Xe} \le 150 \text{ A}$: full luminescence condition) of main condenser ($C_M = 400 \ \mu\text{F}$). Repetitive period under the full luminescence conditions is over 3 seconds.
- 4. Total gate operation time must be applied within 5,000 hours.





Package Dimensions



Ordering Information

Lead form	Standard packing		Quantity		Standard order code	Standard order code example	
Surface-mounted type	Taping	₹			3000	Type name – T +Direction (1 or 2)+3	CY25AAJ-8-T13

Note: Please confirm the specification about the shipping in detail.

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