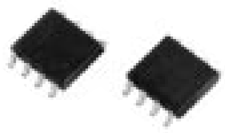
MITSUBISHI IGBT

CY20AAJ-8F

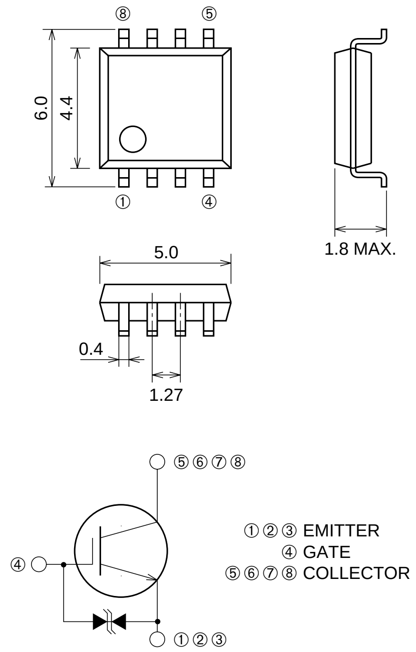
Nch IGBT for STROBE FLASHER

CY20AAJ-8F



- V_{CES} 400V
- I_{CM} 130A
- Drive voltage 4V

OUTLINE DRAWING Dimensions in mm



SOP-8

APPLICATION

Strobe Flasher for camera

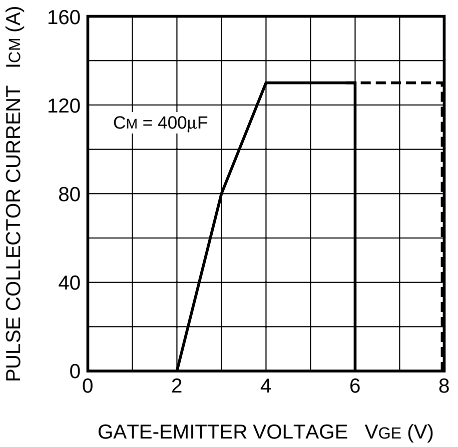
MAXIMUM RATINGS (T_c = 25°C)

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, tw = 10s	±8	V
I_{CM}	Collector current (Pulsed)	C_M = 400µF see figure1	130	A
T_j	Junction temperature		–40 ~ +150	°C
T_{stg}	Storage temperature		–40 ~ +150	°C

ELECTRICAL CHARACTERISTICS (T_j = 25°C)

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

Figure1. MAXIMUM PULSE COLLECTOR CURRENT



APPLICATION EXAMPLE