2PG352

Insulated Gate Bipolar Transistor

■ Features

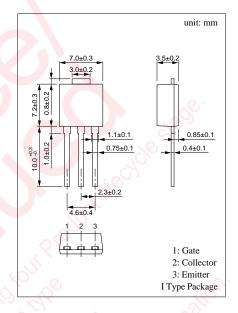
- ullet High breakdown voltage: $V_{CES} = 400V$
- Allowing to control large current: $I_{C(peak)} = 150A$
- Allowing to provide with the surface mounting package

■ Applications

• For flash-light for use in a camera

■ Absolute Maximum Ratings (T_C = 25°C)

Parameter		Symbol	Ratings	Unit	
Collector to emitter voltage		V _{CES}	400	V	
Gate to emitter voltage		V _{GES}	±16	V	
Collector current	DC	$I_{\rm C}$	5	A	
	Pulse	I_{CP}	150	A	
Allowable power	$T_C = 25^{\circ}C$	D	15	w	
dissipation	Ta = 25°C	$P_{\rm C}$	1.3		
Channel temperature		T_{ch}	150	°C	
Storage temperature		T _{stg}	-55 to +150	%°C . (0	



■ Electrical Characteristics (T_C = 25°C)

Parameter	Symbol	Conditions	min	typ	max	Unit
Collector to emitter cut-off current	I _{CES}	$V_{CE} = 320V, V_{GE} = 0$			10	μΑ
Gate to emitter leakage current	I_{GES}	$V_{GE} = \pm 12V, V_{CE} = 0$			±1	μA
Collector to emitter breakdown voltage	V _{CES}	$I_C = 1$ mA, $V_{GE} = 0$	400			V
Gate threshold voltage	V _{GE(th)}	$V_{CE} = 10V, I_{C} = 1mA$	1	2	5	V
Collector to emitter	V	$V_{GE} = 12V, I_{C} = 5A$			2	v
saturation voltage	V _{CE(sat)}	$V_{GE} = 12V, I_{C} = 150A$			10	v
Input capacitance (Common Emitter)	Cies	$V_{CE} = 10V, V_{GE} = 0, f = 1MHz$		1370		pF
Turn-on time (delay time)	t _{d(on)}			20		ns
Rise time	t _r	$V_{CC} = 300V, I_{C} = 130A$		250		ns
Turn-off time (delay time)	$t_{d(off)}$	$V_{GE} = 12V, R_g = 25\Omega$		150		ns
Fall time	t _f			700		ns



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