9097250 TOSHIBA (DISCRETE/OPTO)

56C 07881

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SILICON NPN TRIPLE DIFFUSED MESA TYPE (DARLINGTON POWER)

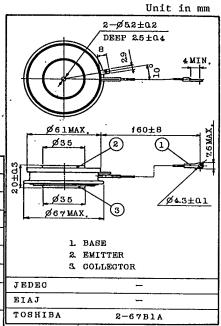
HIGH POWER SWITCHING APPLICATION AC & DC MOTOR CONTROL APPLICATION INVERTER APPLICATION

## FEATURES:

- . High Voltage : VCEO(SUS)>900V
- . Triple Diffused Design
- . Darlington Design

## MAXIMUM RATINGS (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT	
Collector-Base Voltage	V <sub>CBO</sub>	1000	V	
Collector-Emitter Voltage	V <sub>CEO</sub> (SUS)	900	v	
Emitter-Base Voltage	$v_{EBO}$	6	V	
Collector Current	IC	200	A	
Emitter Current	IE	-200	A	
Base Current	IB	12	A	
Thermal Resistance (Double Side Cooling)	R <sub>th</sub> (j-c)	th(j-c) 0.04		
Junction Temperature	Tj	125	°c	
Storage Temperature	Tstg	-40~150	°c	
Mounting Force Required	F 1000±100		kġ	



Weight: 250g

## ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Forward Current Transfer Ratio		hpE	V <sub>CE</sub> =5V, I <sub>C</sub> =200A	80	200	-	
Collector-Emi		V <sub>CEO</sub> (SUS)	I <sub>C</sub> =0.5A, L=40mH	900	_	-	V
Collector-Emitter Saturation Voltage		VCE(sat)	I <sub>C</sub> =200A, I <sub>B</sub> =5A (Note)	-	_	2.0	V
Base-Emitter Saturation Voltage		V <sub>BE</sub> (sat)			_	2.5	V
Collector Cut-off Current		ICEO	V <sub>CE</sub> =900V, I <sub>B</sub> =0	-	1.0	3.0	mA
Emitter Cut-off Current		IEBO	V <sub>EB</sub> =6V, I <sub>C</sub> =0	_	300	2000	mA
Switching Time	Turn-on Time	ton	I <sub>C</sub> =200A, I <sub>B1</sub> =4A, -I <sub>B2</sub> =8A, V <sub>C</sub> =600V	-	1.8	3.0	μS
	Storage Time	t <sub>stg</sub>		-	24	30	μs
	Fall Time	tf			4.0	8.0	μs

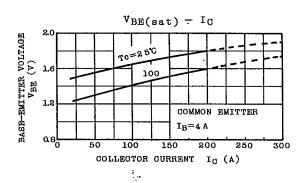
Note: Pulse Test; Pulse Width≤300µs Duty Cycle≤3% Mounting Foce; F=1000kg

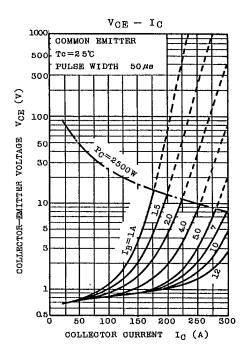
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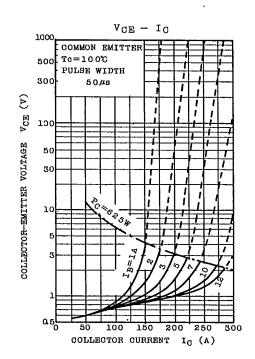
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