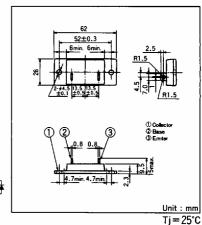
## NSISTOR MODULE(NON-ISOLATED TYPE) R

**SQD50AB** is a high speed, high power Darlington transistor designed for use in Resonance circuit. The transistor has a reverse paralleled fast recovery diode.

- $V_{CBO} = 1000V$ ,  $I_C = 50A$
- Suitable for Resonance circuit applications.
- Non-isolated.

(Applications)

Microwed Oven etc. Induction Cooker, Inverte



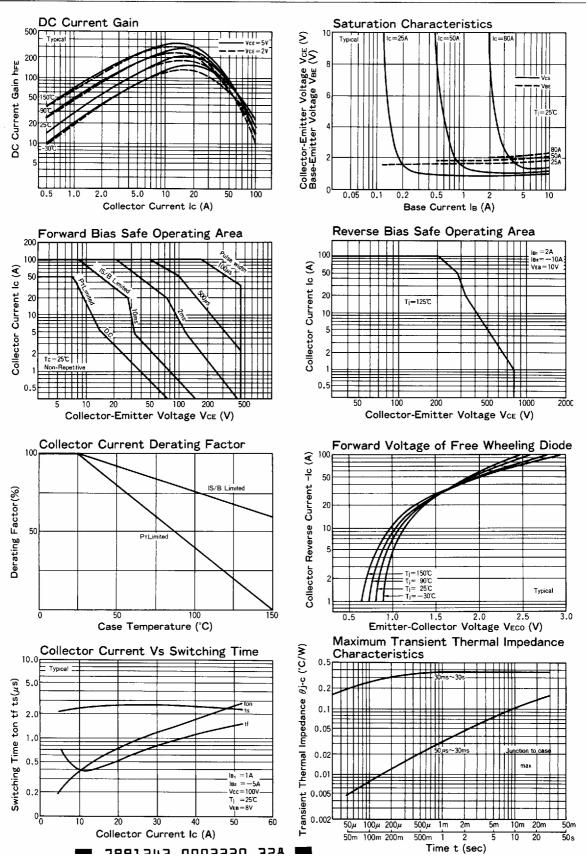
## Maximum Ratings

Symbol	Item	Conditions	Ratings	Unit		
Vсво	Collector-Base Voltage		1000	v		
VCEO	Collector-Emitter Voltage	Ic=25mA	450	٧		
VEBO	Emitter-Base Voltage		11	V		
ic	Collector Current		50 (100)			
— ic	Reverse Collector Current	( )Peak	6	- A		
ls	Base Current		5	A		
Ρτ	Total power dissipation		350	W		
Tj	Junction Temperature		- 30~ + 150	°C		
Tstg	Storage Temperature		- 30~ + 125	°C		
	Mounting Torque(M4)	Recommended Value 1.0 $\sim$ 1.4 (10 $\sim$ 14)	1.5 (15)	N•m (kgf∙cm		

Tj=25°C

Symbol	ltem				Ratings		
			Conditions	Min.	Тур.	Max.	Unit
lcso	Collector Cut-off Current		V <sub>CB</sub> = 1000V			1.0	mA
I <sub>EBO</sub>	Emitter Cut-off Current		V <sub>EB</sub> = 11V Tj = 25°C		600	830	mA
			$V_{EB} = 11V T_j = -10^{\circ}C$		700		
VCEO (SUS)	Collector-Emitter Sustaning Voltage		Ic=25mA	450			v
VCEX (SUS)			$I_{C} = 1A I_{B2} = -10A$	800			
hfe	DC Current Gain		$I_{C}=10A V_{CE}=5V$		300		
			$I_{C}=50A V_{CE}=5V$	70	120	250	
V <sub>CE (sat)</sub>	Collector-Emitter Saturation Voltage		$I_{C} = 50A I_{B} = 1A$			2.0	V
VBE (sat)	Base-Emitter Saturation Voltage		$I_{C} = 50A I_{B} = 1A$			2.8	V
ton		On Time	$V_{cc} = 100V \ c = 50A$ $I_{B1} = 1A \ I_{B2} = -5A$			3.5	μs
ts		Storage Time				3.0	
tf		Fall Tjme				1.75	
VECO	Collector-Emitter Reverse Voltage		lc = -10A			1.5	V
trr	Reverse Recovery time		$lc = -2A di/dt = -20A/\mu s$		3		μs
Rth (j-c)	Thermal Impedance (junction to case)					0.36	°C/W

## (2-stage Darlington) SQD50AB100



TRANSISTO

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