



查询BD241供应商

BD 241 · BD 241A · BD 241B

NPN SILICON EPITAXIAL BASE POWER TRANSISTORS
捷多邦，专业PCB打样工厂，24小时加急出货

MICRO ELECTRONICS

THE BD 241, BD 241A AND BD 241B ARE NPN SILICON EPITAXIAL BASE POWER TRANSISTORS DESIGNED FOR SWITCHING, DRIVER AND OUTPUT STAGES IN AUDIO AMPLIFIERS. THE BD 241, BD 241A AND BD 241B ARE COMPLEMENTARY TO BD 242, BD 242A AND BD 242B RESPECTIVELY.

CASE TO-220B

ABSOLUTE MAXIMUM RATINGS

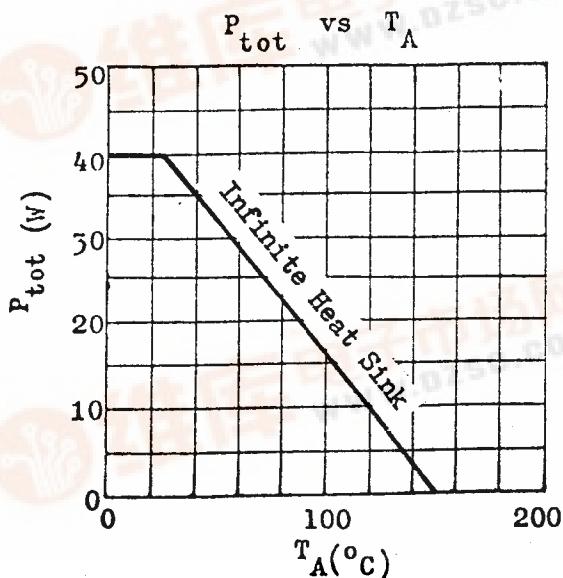
	<u>BD241</u>	<u>BD241A</u>	<u>BD241B</u>
Collector-Emitter Voltage ($R_{BE}=100\Omega$)	VCER	55V	70V
Collector-Emitter Voltage ($I_B=0$)	VCEO	45V	60V
Emitter-Base Voltage	V _{EBO}		5V
Collector Current	I _C		3A
Base Current	I _B		1A
Total Power Dissipation @ $T_C \leq 25^\circ C$ @ $T_A \leq 25^\circ C$	P _{tot}		40W
			2W
Junction and Storage Temperature	T _j , T _{stg}	-55 to +150°C	

THERMAL RESISTANCE

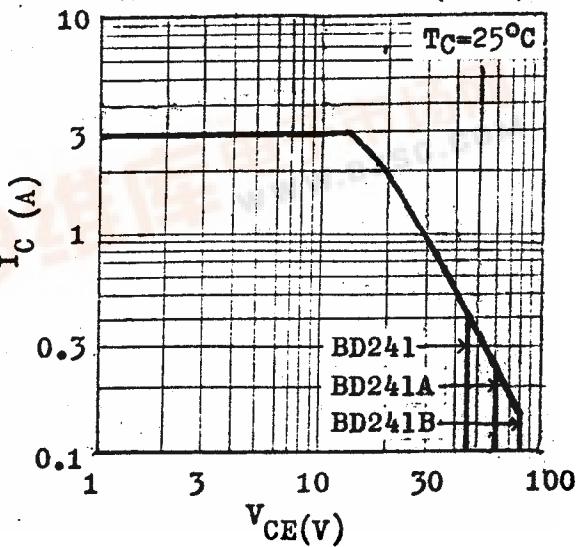
Junction to Case

 θ_{jc} 3.12°C/W max.

Junction to Ambient

 θ_{ja} 62.5°C/W max.

SAFE OPERATING AREA (D.C.)



38 HUNG TO ROAD, KWUN TONG, HONG KONG. TELEX 43510
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ELECTRICAL CHARACTERISTICS ($T_A=25^\circ C$ unless otherwise noted)

PARAMETER	SYMBOL	MIN	MAX	UNIT	TEST CONDITIONS
Collector-Emitter Breakdown Voltage BD241 BD241A BD241B	V_{CEO}^*	45 60 80		V	$I_C=30mA \quad I_B=0$
Collector Cutoff Current BD241, BD241A BD241B	I_{CEO}		0.3 0.3	mA mA	$V_{CE}=30V \quad I_B=0$ $V_{CE}=60V \quad I_B=0$
Collector Cutoff Current BD241 BD241A BD241B	I_{CES}		0.2 0.2 0.2	mA mA mA	$V_{CE}=45V \quad V_{BE}=0$ $V_{CE}=60V \quad V_{BE}=0$ $V_{CE}=80V \quad V_{BE}=0$
Emitter Cutoff Current	I_{EBO}		1	mA	$V_{EB}=5V \quad I_C=0$
Base-Emitter Voltage	V_{BE}^*		1.8	V	$I_C=3A \quad V_{CE}=4V$
Collector-Emitter Saturation Voltage	$V_{CE(sat)}^*$		1.2	V	$I_C=3A \quad I_B=0.6A$
D.C. Current Gain	H_{FE}^*	25 10			$I_C=1A \quad V_{CE}=4V$ $I_C=3A \quad V_{CE}=4V$
Small Signal Current Gain	h_{fe}		20		$I_C=0.5A \quad V_{CE}=10V$ $f=1kHz$
Current Gain-Bandwidth Product	f_T		3	MHz	$I_C=0.5A \quad V_{CE}=10V$

* Pulse Test : Pulse Width=0.3mS, Duty Cycle=1%

