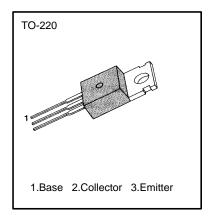
MEDIUM POWER LINEAR AND SWITCHING APPLICATIONS

• Complement to BD242/A/B/C respectively

ABSOLUTE MAXIMUM RATINGS

mbol Rating	Unit
45 60 80 100 8 55 70 90 115 5 3 5 1 40 150 6	V V V V V A A A W © C
	0 45 60 80 100 8 55 70 90 115 0 5 3 5 1 40



ELECTRICAL CHARACTERISTICS (T_C =25)

Characteristic		Symbol	Test Conditions	Min	Тур	Max	Unit
* Collector Emitter Sustaining Voltage : BD241		V _{CEO} (sus)	$I_C = 30 \text{mA}, I_B = 0$	45			V
: BD241A				60			V
: BD241B				80			V
: BD241C				100			V
Collector Cutoff Current	: BD241/A	I _{CEO}	$V_{CE} = 30V, I_{B} = 0$			0.3	mA
: BD241B/C			$V_{CE} = 60V, I_{B} = 0$			0.3	mA
Collector Cutoff Current	: BD241	I _{CES}	$V_{CE} = 45V, V_{BE} = 0$			0.2	mA
: BD241A			$V_{CE} = 60V, V_{BE} = 0$			0.2	mA
: BD241B			$V_{CE} = 80V, V_{BE} = 0$			0.2	mA
: BD241C			$V_{CE} = 100V, V_{BE} = 0$			0.2	mA
Emitter Cutoff Current		I _{EBO}	$V_{EB} = 5V, I_{C} = 0$			1	mA
*DC Current Gain		h _{FE}	$V_{CE} = 4V$, $I_C = 1A$	25			
			$V_{CE} = 4V$, $I_C = 3A$	10			
*Collector Emitter Saturation Voltage		V _{CE} (sat)	$I_C = 3A$, $I_B = 0.6A$			1.2	V
*Base Emitter On Voltage		V _{BE} (on)	$V_{CE} = 4V$, $I_C = 3A$			1.8	V

^{*} Pulse Test: PW=350μs, duty Cycle≤2.0% Pulsed



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FACTTM QSTM

 $\begin{array}{lll} \mathsf{FACT} \ \mathsf{Quiet} \ \mathsf{Series^{\mathsf{TM}}} & \mathsf{Quiet} \ \mathsf{Series^{\mathsf{TM}}} \\ \mathsf{FAST}^{\otimes} & \mathsf{SuperSOT^{\mathsf{TM}}}\text{-}3 \\ \mathsf{FASTr^{\mathsf{TM}}} & \mathsf{SuperSOT^{\mathsf{TM}}}\text{-}6 \\ \mathsf{GTO^{\mathsf{TM}}} & \mathsf{SuperSOT^{\mathsf{TM}}}\text{-}8 \\ \mathsf{HiSeC^{\mathsf{TM}}} & \mathsf{TinyLogic^{\mathsf{TM}}} \end{array}$

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