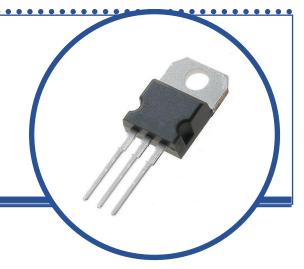
SILICON NPN POWER DARLINGTON TRANSISTOR



BDT63CX-MAG.R

- NPN Epitaxial base transistor
- Monolithic Darlington circuit
- Applications include audio output stages, general purposes amplifiers and switching

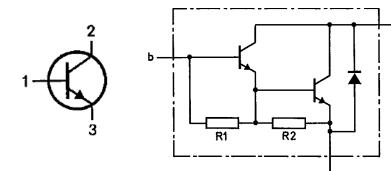


ABSOLUTE MAXIMUM RATINGS (T_A = 25°C unless otherwise stated)

			Unit
VCBO	Collector-Base Voltage	115	V
VCEO	Collector-Emitter Voltage	115	V
V_{EBO}	Emitter-Base Voltage	5	V
IC	Collector Current (DC)	10	А
ICM	Collector Current (Peak)	15	А
I_{B}	Base Current (DC)	250	mA
P_{D}	Total Device Dissipation	90	W
Тј	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-65 to 150	°C

SCHEMATIC

And equivalent circuit



R1 typ. 8 k Ω R2 typ. 100 Ω

Magnatec reserves the right to change test conditions, parameter limits and package dimensions without notice. Information furnished by Magnatec is believed to be both accurate and reliable at the time of going to press. However Magnatec assumes no responsibility for any errors or omissions discovered in its use. Magnatec encourages customers to verify that datasheets are current before placing orders.



SILICON NPN POWER TRANSISTOR



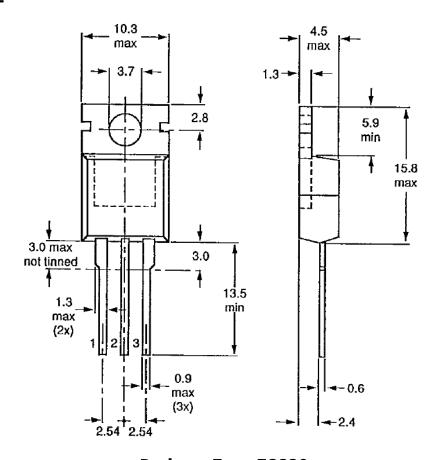
BDT63CX-MAG.R

ELECTRICAL CHARACTERISTICS (T_j = 25°C unless otherwise stated)

Symbols	Parameters	Test Conditions		Min	Тур	Мах	Units	
		$V_{CB} = V_{CBOmax}$	I _E = 0			0.2		
I _{CBO}	Collector cut-off Current	$V_{CB} = \frac{1}{2} V_{CBOmax}$	I _E = 0 T _j = 150°C			2.0	mA	
I _{CEO}	Collector cut-off Current	$V_{CE} = \frac{1}{2} V_{CEOmax}$	$I_B = 0$			0.5		
I _{EBO}	Emitter cut-off Current	$V_{EB} = 5V$	I _C = 0			5.0	1	
I _(SB)	Forward bias second breakdown collector current	VCE = 60V (without heatsink)	$I_E = 0$ t = 0.1s	1.5			А	
h _{FE}	DC Current Gain	I _C = 3A	1 \/ < r = 3 \/	1000				
		I _C = 10A			3000]	
V_{BE}	Base-Emitter Voltage	I _C = 3A	$V_{CE} = 3V$			2.5		
V _{CE (sat)}	Collector-Emitter Saturation Voltage	I _C = 3A	$I_B = 12mA$			2	V	
		I _C = 8A	$I_B = 80 \text{mA}$			2.5		
V _F	Forward Voltage	I _F = 3A				2	1	
C _{ob}	Collector Capacitance	V _{CB} = 10V	$I_E = I_e = 0$		100		рF	
t _{on}	C. Halaina Cana	I _{Con} = 3A			1.0	2.5		
t _{off}	- Switching times	$I_{Bon} = -I_{Boff} = 12mA$			5.0	10.0	μs	
h _{fe}	Small signal current gain	$I_C = 3A; V_{CE} = 3V; f = 1MHz$		25			1	

MECHANICAL

Dimensions in mm



Package Type TO220

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