THERMAL DATA

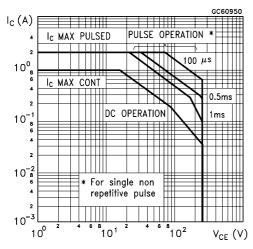
R _{thj-case}	Thermal Resistance Junction-case	Max	8.33	°C/W	
R _{thj-amb}	Thermal Resistance Junction-ambient	Max	100	°C/W	

ELECTRICAL CHARACTERISTICS (T_{case} = 25 °C unless otherwise specified)

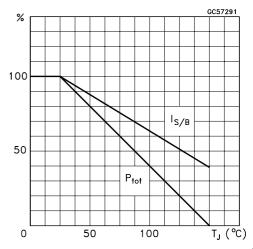
Symbol	Parameter	Test Conditions	Min.	Тур.	Max.	Unit
I _{CES}	Collector Cut-off Current (V _{BE} = 0)	V _{CE} = 350 V			0.1	mA
I _{CEO}	Collector Cut-off Current (I _B = 0)	V _{CE} = 150 V			0.1	mA
I _{EBO}	Emitter Cut-off Current (I _C = 0)	V _{EB} = 5 V			1	mA
V _{CEO(sus)*}	Collector-Emitter Sustaining Voltage (I _B = 0)	Ic = 30 mA	250			V
V _{CE(sat)} *	Collector-Emitter Saturation Voltage	I _C = 1 A I _B = 0.2 A			1	V
V _{BE(on)} *	Base-Emitter On Voltage	I _C = 1 A V _{CE} = 10 V			1.5	V
h _{FE} *	DC Current Gain	I _C = 0.3 A V _{CE} = 10 V I _C = 1 A V _{CE} = 10 V	30 10		150	
f⊤	Transition Frequency	I _C = 0.2 A V _{CE} = 10 V f = 2MHz	10			MHz
h _{fe}	Small Signal Current Gain	I _C = 0.2 A V _{CE} = 10 V f = 1KHz	25			

^{*} Pulsed: Pulse duration = 300 μs, duty cycle 1.5 %

Safe Operating Area



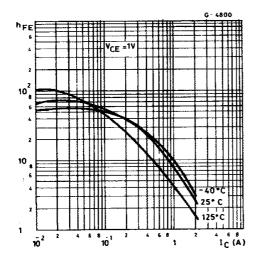
Derating Curves



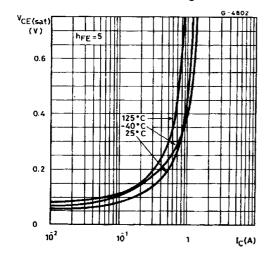
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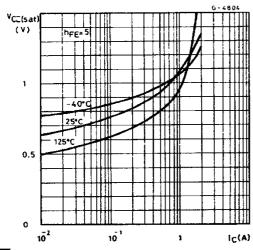
DC Current Gain



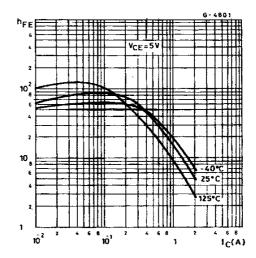
Collector-Emitter Saturation Voltage



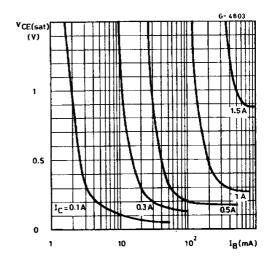
Base-Emitter Saturation Voltage



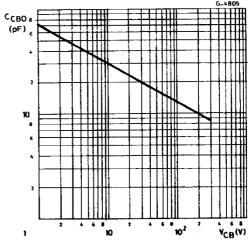
DC Current Gain



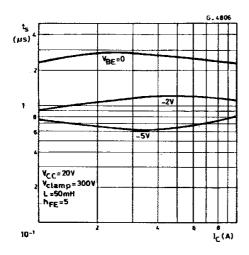
Collector-Emitter Saturation Voltage



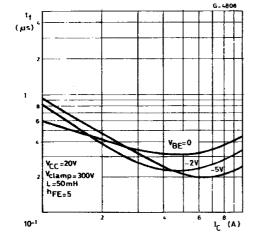
Collector-Base Capacitance



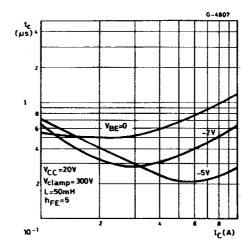
Switching Time Inductive Load



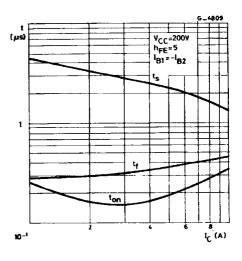
Switching Time Inductive Load



Switching Time Inductive Load

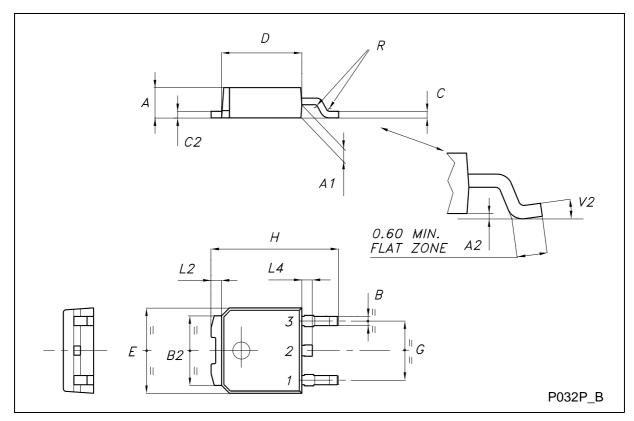


Switching Time Inductive Load



TO-252 (DPAK) MECHANICAL DATA

DIM.	mm		inch			
	MIN.	TYP.	MAX.	MIN.	TYP.	MAX.
А	2.20		2.40	0.087		0.094
A1	0.90		1.10	0.035		0.043
A2	0.03		0.23	0.001		0.009
В	0.64		0.90	0.025		0.035
B2	5.20		5.40	0.204		0.213
С	0.45		0.60	0.018		0.024
C2	0.48		0.60	0.019		0.024
D	6.00		6.20	0.236		0.244
Е	6.40		6.60	0.252		0.260
G	4.40		4.60	0.173		0.181
Н	9.35		10.10	0.368		0.398
L2		0.8			0.031	
L4	0.60		1.00	0.024		0.039
V2	0°		8°	0°		0°



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