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DESCRIPTION:

The CENTRAL SEMICONDUCTOR TIP32 series devices are silicon PNP epitaxial-base power transistors designed for power amplifier and high speed switching applications.

MARKING: FULL PART NUMBER

MAXIMUM RATINGS: (T_C=25°C unless otherwise noted)

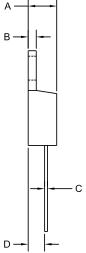
TO-220 CASE

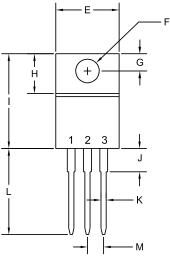
	ATINGS. (TC-25 C diffess otherwise	SYMBOL	TIP32	TIP32A	TIP32B	TIP32C	UNITS		
Collector-Base Voltage		V _{CBO}	40	60	80	100	V		
Collector-Emitter Voltage		VCEO	40	60	80	100	V		
Emitter-Base Voltage		V _{EBO}	5.0			V			
Continuous Collector Current		IС		3.0			А		
Peak Collector Current		ICM		5.0			А		
Continuous Base Current		۱ _B		1.0			А		
Power Dissipation		PD		40			W		
Power Dissipation (T _A =25°C)		PD		2.0			W		
Operating and Storage Junction Temperature		TJ, Tstg		-65 to +150			°C		
Thermal Resistance		Θ_{JA}		62.5			°C/W		
Thermal Resistance		Θ^{JC}		3.13			°C/W		
ELECTRICAL CHARACTERISTICS: (T _C =25°C unless otherwise noted)									
SYMBOL	TEST CONDITIONS	MIN	,	ТҮР	MAX	-	UNITS		
ICEO	V _{CE} =30V (TIP32, TIP32A)				0.3		mA		
ICEO	V _{CE} =60V (TIP32B, TIP32C)				0.3		mA		
ICES	V _{CE} =Rated V _{CEO}				0.2		mA		
IEBO	V _{EB} =5.0V				1.0		mA		
BVCEO	I _C =30mA (TIP32)	40					V		
BVCEO	I _C =30mA (TIP32A)	60					V		
BVCEO	I _C =30mA (TIP32B)	80					V		
BVCEO	I _C =30mA (TIP32C)	100					V		
V _{CE(SAT)}	I _C =3.0A, I _B =375mA				1.2		V		
V _{BE(ON)}	V _{CE} =4.0V, I _C =3.0A				1.8		V		
hFE	V _{CE} =4.0V, I _C =1.0A	25							
hFE	V _{CE} =4.0V, I _C =3.0A	10			50				
h _{fe}	V _{CE} =10V, I _C =0.5A, f=1.0kHz	20							
fT	V _{CE} =10V, I _C =0.5A, f=1.0MHz	3.0					MHz		
ton	I _C =1.0A, I _{B1} =I _{B2} =0.1A, R _L =30Ω			0.3			μs		
^t off	I _C =1.0A, I _{B1} =I _{B2} =0.1A, R _L =30Ω			1.0			μs		

R1 (12-June 2014)



TO-220 CASE - MECHANICAL OUTLINE





LEAD CODE: 1) Base 2) Collector 3) Emitter Tab) Collector

MARKING: FULL PART NUMBER

DIMENSIONS								
	INCHES		MILLIMETERS					
SYMBOL	MIN	MAX	MIN	MAX				
А	0.170	0.190	4.31	4.82				
В	0.045	0.055	1.15	1.39				
С	0.013	0.026	0.33	0.65				
D	0.083	0.107	2.10	2.72				
E	0.394	0.417	10.01	10.60				
F (DIA)	0.140	0.157	3.55	4.00				
G	0.100	0.118	2.54	3.00				
Н	0.230	0.270	5.85	6.85				
	0.560	0.625	14.23	15.87				
J	-	0.250	-	6.35				
K	0.025	0.038	0.64	0.96				
L	0.500	0.579	12.70	14.70				
М	0.090	0.110	2.29	2.79				
TO-220 (REV: R2)								

TO-220 (REV: R2)

R2

R1 (12-June 2014)

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- 1. If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
- 2. If requesting Lead (Pb) Free plated devices, add the suffix "PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

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