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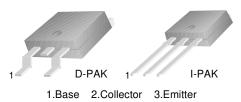
FAIRCHILD

SEMICONDUCTOR®

MJD32/32C

General Purpose Amplifier Low Speed Switching Applications D-PAK for Surface Mount Applications • Load Formed for Surface Mount Application (No Suffix) • Straight Lead (I-PAK, "- I" Suffix)

- Electrically Similar to Popular TIP32 and TIP32C



MJD32/32C

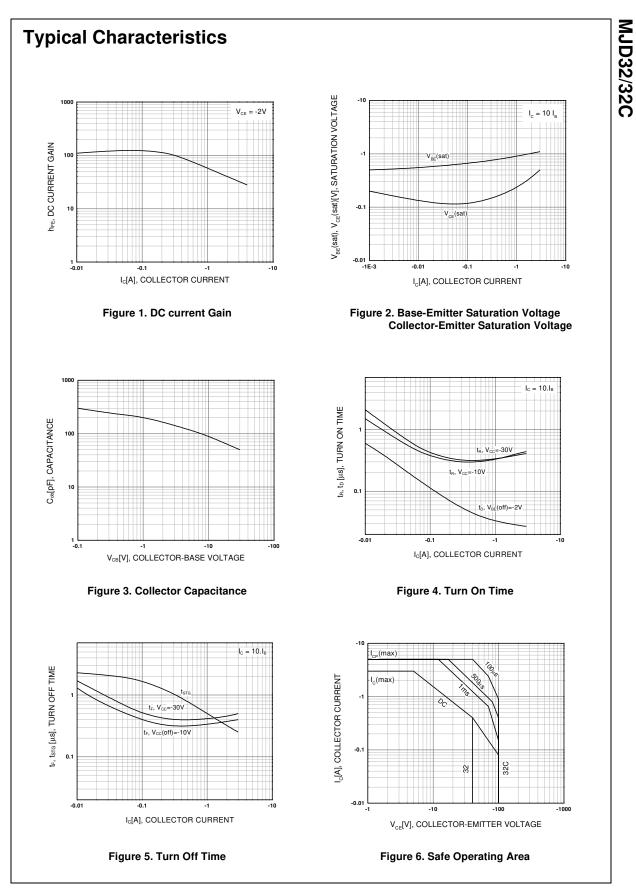
PNP Epitaxial Silicon Transistor

Absolute Maximum	Ratings $T_{C}=25^{\circ}C$ unless otherwise noted
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Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	- 40	V
	: MJD32	- 100	V
	: MJD32C		
V _{CEO} Collector-Emitter Voltage	Collector-Emitter Voltage	- 40	V
	: MJD32	- 100	V
	: MJD32C		
V _{EBO}	Emitter-Base Voltage	- 5	V
I _C	Collector Current (DC)	- 3	A
I _{CP}	Collector Current (Pulse)	- 5	А
I _B	Base Current	- 1	А
P _C	Collector Dissipation (T _C =25°C)	15	W
	Collector Dissipation ($T_a=25^{\circ}C$)	1.56	W
TJ	Junction Temperature	150	°C
T _{STG}	Storage Temperature	- 65 ~ 150	°C

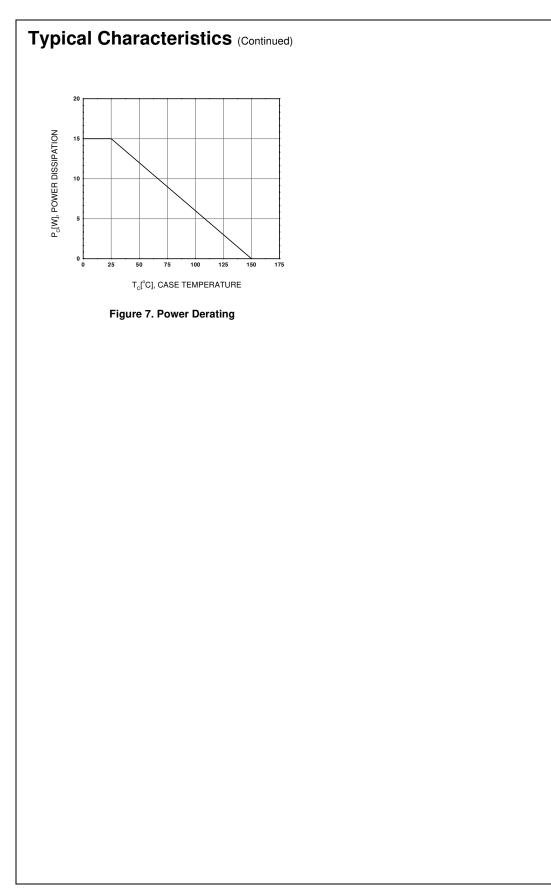
Electrical Characteristics T_C=25°C unless otherwise noted

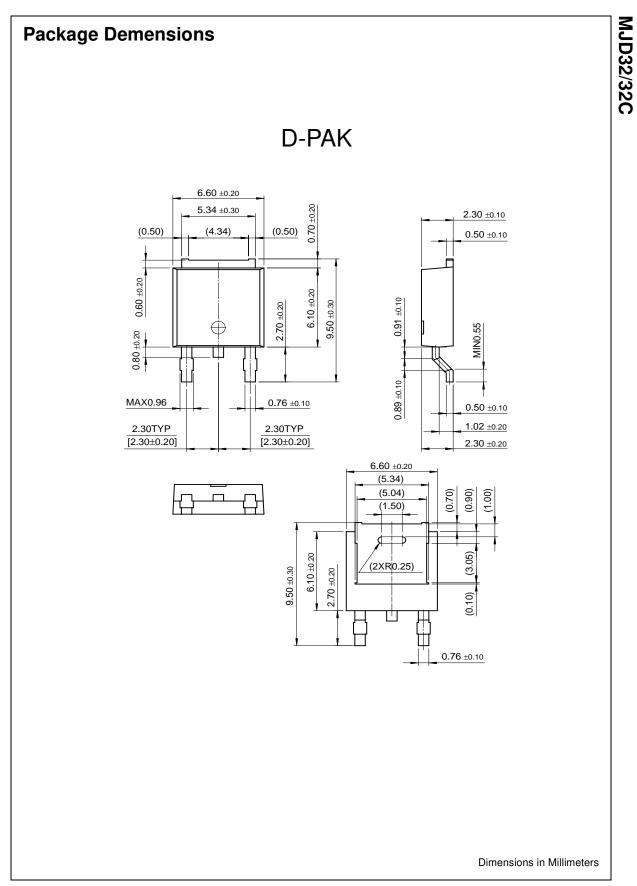
Symbol	Parameter	Test Condition	Min.	Max.	Units
V _{CEO} (sus)	* Collector-Emitter Sustaining Voltage				
OLO:	: MJD32	I _C = - 30mA, I _B = 0	-40		V
	: MJD32C	.	-100		V
CEO	Collector Cut-off Current				
	: MJD32	$V_{CE} = -40V, I_{B} = 0$		-50	μΑ
	: MJD32C	$V_{CE}^{OE} = -60V, I_{B}^{OE} = 0$		-50	μA
CES	Collector Cut-off Current				
	: MJD32	$V_{CE} = -40V, V_{BE} = 0$		-20	μΑ
	: MJD32C	$V_{CE} = -100V, V_{BE} = 0$		-20	μA
EBO	Emitter Cut-off Current	$V_{BE} = -5V, I_{C} = 0$		-1	mA
٦ _{FE}	* DC Current Gain	V _{CE} = - 4V, I _C = - 1A	25		
		$V_{CE} = -4V, I_{C} = -3A$	10	50	
V _{CE} (sat)	* Collector-Emitter Saturation Voltage	I _C = - 3, I _B = - 375mA		-1.2	V
V _{BE} (on)	* Base-Emitter ON Voltage	V _{CE} = - 4A, I _C = - 3A		-1.8	V
f _T	Current Gain Bandwidth Product	$V_{CE} = -10V, I_{C} = -500mA$	3		MHz



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