

Micro Commercial Components



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MJD112

Features

- Halogen free available upon request by adding suffix "-HF"
- Lead Free Finish/RoHS Compliant("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- High DC Current Gain
- Built-in a damper diode at E-C
- Maximum Thermal Resistance: 125°C/W Junction to Ambient

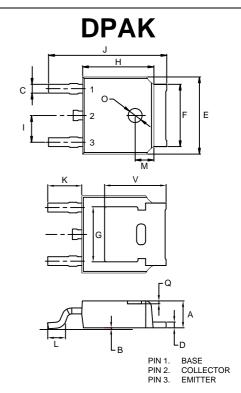
Maximum Ratings @ 25°C Unless Otherwise Specified

Symbol	Rating	Rating	Unit
V_{CEO}	Collector-Emitter Voltage	100	V
V_{CBO}	Collector-Base Voltage	100	V
V_{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current-Continuous	2	Α
Pc	Collector Dissipation	1.0	W
TJ	Operating Junction Temperature	150	$^{\circ}\mathbb{C}$
T_{STG}	Storage Temperature	-55 to +150	$^{\circ}$

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Тур	Max	Units
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage (I _C =30mAdc, I _B =0)	100	-		Vdc
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage $(I_C=1 \text{mAdc}, I_E=0)$	100			Vdc
$V_{(BR)EBO}$	Collector-Emitter Breakdown Voltage (I _E =5mAdc, I _C =0)	5			Vdc
І _{СВО}	Collector Cutoff Current (V _{CB} =100Vdc, I _E =0)			20	nAdc
I _{CEO}	Collector emitter cutoff Current (V _{CE} =50Vdc, I _E =0)			20	nAdc
I _{EBO}	Emitter Cutoff Current (V _{EB} =5Vdc, I _C =0)			2	mAdc
h _{FE}	DC Current Gain (I_C =500mAdc, V_{CE} =3Vdc) (I_C =2Adc, V_{CE} =3Vdc) (I_C =4Adc, V_{CE} =3Vdc)	500 1000 200	 	 12000 	
V _{CE(sat)}	Collector-Emitter Saturation Voltage (I _C =2Adc, I _B =8mAdc)			2	Vdc
	(I _C =4Adc, I _B =40mAdc)	i		3	Vdc
f⊤	Transition frequency (V _{CE} =10Vdc, f=1MHz, I _C =0.75A)	25			MHz
V_{BE}	Base-Emitter Saturation Voltage (I _C =2Adc, V _{CE} =3Vdc)			2.8	Vdc
C_{ob}	Output Capacitance (V _{CB} =10Vdc, f=0.1MHz, I _E =0)			100	pF

Silicon NPN epitaxial planer **Transistors**

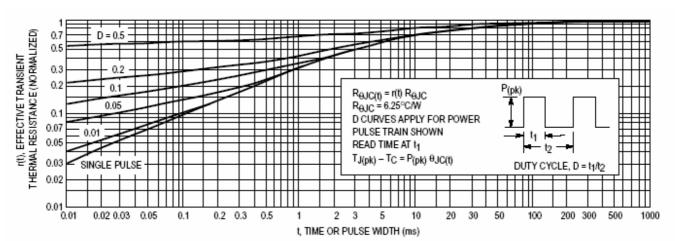


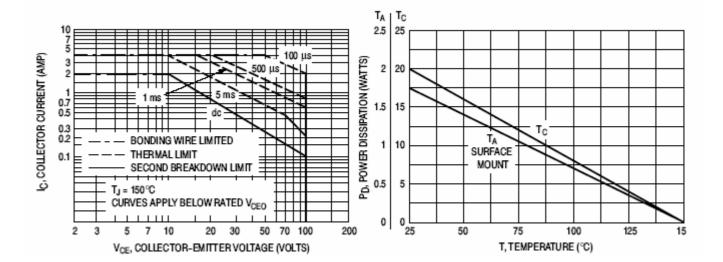
	DIMENSIONS					
	INCI	HES	ММ			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	0.087	0.094	2.20	2.40		
В	0.000	0.005	0.00	0.13		
С	0.026	0.034	0.66	0.86		
D	0.018	0.023	0.46	0.58		
Е	0.256	0.264	6.50	6.70		
F	0.201	0.215	5.10	5.46		
G	0.190		4.83			
Н	0.236	0.244	6.00	6.20		
_	0.086	0.094	2.18	2.39		
J	0.386	0.409	9.80	10.40		
K	0.114		2.90			
L	0.055	0.067	1.40	1.70		
M	0.063		1.60			
0	0.043	0.051	1.10	1.30		
Q	0.000	0.012	0.00	0.30		
V	0.211		5.	35		



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Typical Characteristics







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Ordering Information:

Device	Packing
Part Number-TP	Tape&Reel: 2.5Kpcs/Reel

Note: Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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AMEYA360 Components Supply Platform

Authorized Distribution Brand:

























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