

Features

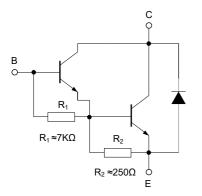
- High DC Current Gain
- Built-in a Damper Diode at E-C
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings @ 25°C Unless Otherwise Specified

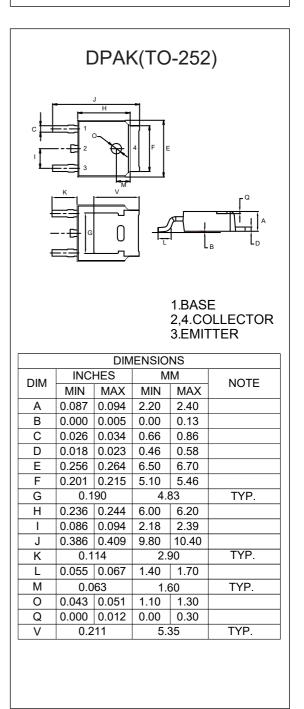
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 83°C/W Junction to Ambient

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	100	V
Collector-Emitter Voltage	V _{CEO}	100	V
Emitter-Base Voltage	V _{EBO}	5	V
Continuous Collector Current	I _C	8	Α
Power Dissipation	P _D	1.5	W

Internal Schematic Diagram



Silicon NPN epitaxial planer Transistors



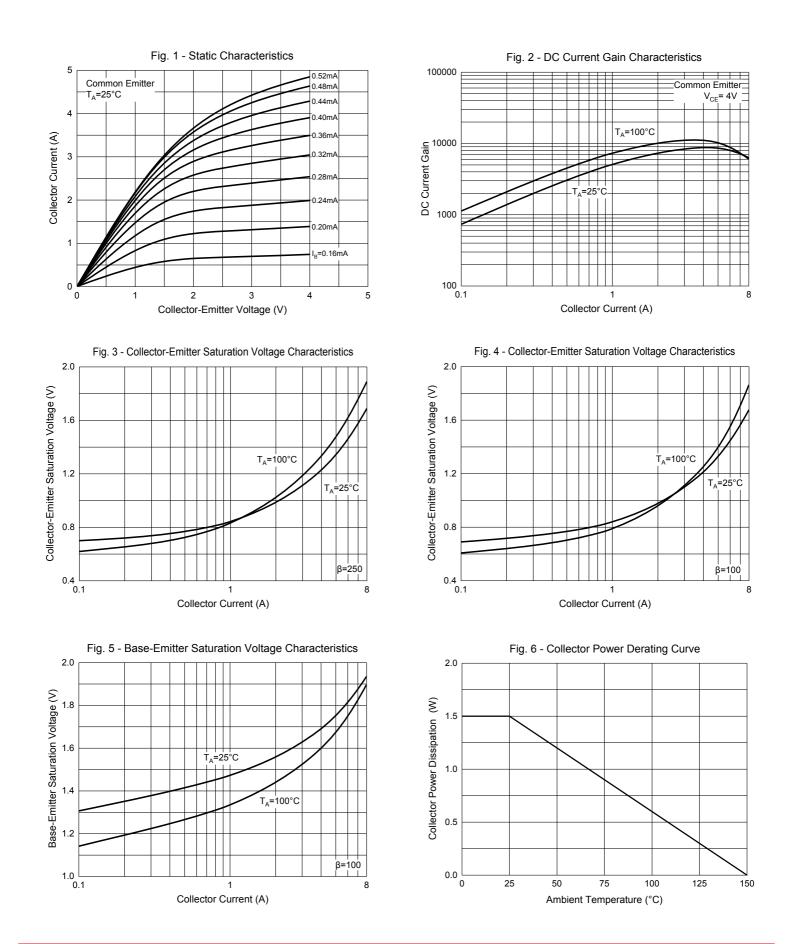


Electrical Characteristics @ $T_A\!\!=\!\!25^\circ\!C$ Unless Otherwise Specified

Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	100			V	I _C =1mA, I _E =0
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	100			V	I _C =30mA, I _B =0
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	5			V	I _E =3mA, I _C =0
Collector Cutoff Current	I _{CBO}			10	μA	V _{CB} =100V, I _E =0
Collector Cutoff Current	I _{CEO}			10	μA	V_{CE} =50V, I _B =0
Emitter Cutoff Current	I _{EBO}			2	mA	$V_{EB}=5V, I_{C}=0$
DC Current Gain	h _{FE(1)}	1000		12000		V_{CE} =4V, I _C =4A
	h _{FE(2)}	100				V_{CE} =4V, I _C =8A
Collector-Emitter Saturation Voltage	V _{CE(sat)}			2.0	V	I _C =4A, I _B =16mA
				4.0	V	I _C =8A, I _B =80mA
Base-Emitter Saturation Voltage	V _{BE(sat)}			4.5	V	I _C =8A, I _B =80mA
Base-Emitter Voltage	V _{BE}			2.8	V	V_{CE} =4V, I _C =4A
Output Capacitance	C _{ob}			200	pF	V_{CB} =10V, I _E =0, f=0.1MHz



Curve Characteristics





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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