

Features

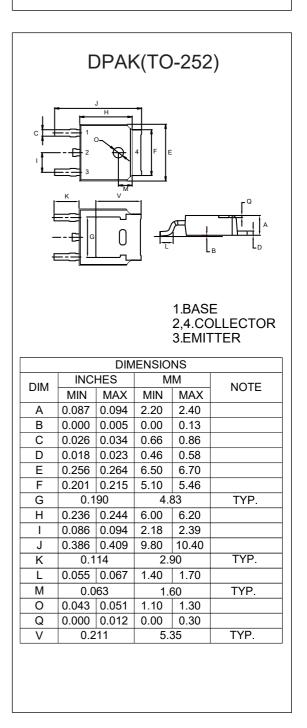
- High DC Current Gain
- Built-in a Damper Diode at E-C
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

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: 125°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	2	A
Power Dissipation	P _D	1	W

Silicon NPN epitaxial planer Transistors



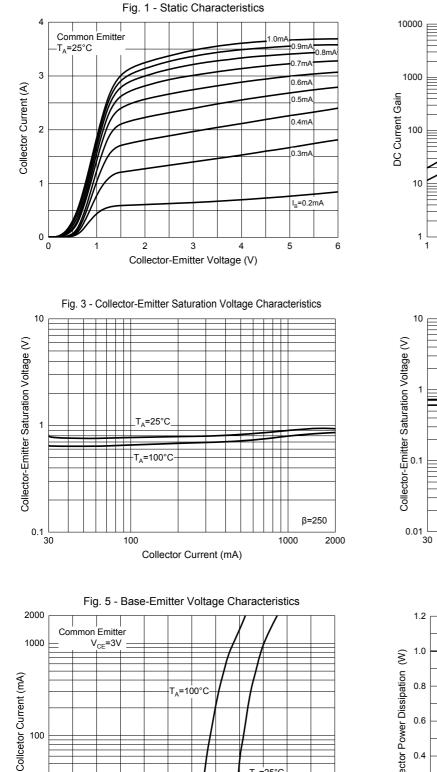


Electrical Characteristics @ T_A=25°C Unless Otherwise Specified

Parameter	Symbol	Min	Тур	Мах	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	$I_{E}=5mA, I_{C}=0$
Collector Cutoff Current	I _{CBO}			20	μA	V _{CB} =100V, I _E =0
Collector Cutoff Current	I _{CEO}			20	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)}	500				$V_{CE}=3V$, $I_{C}=0.5A$
	h _{FE(2)}	1000		12000		$V_{CE}=3V, I_{C}=2A$
	h _{FE(3)}	200				$V_{CE}=3V, I_{C}=4A$
Collector-Emitter Saturation Voltage	V _{CE(sat)}			2.0	V	I _C =2A, I _B =8mA
				3.0	V	I _C =4A, I _B =40mA
Base-Emitter Voltage	V _{BE}			2.8	V	$V_{CE}=3V, I_{C}=2A$
Transition Frequency	f _T	25			MHz	V _{CE} =10V, I _C =0.75A, f=1MHz
Output Capacitance	C _{ob}			100	pF	V _{CB} =10V, I _E =0, f=0.1MHz



Curve Characteristics



T_A=100°C

1.0

Base-Emitter Voltage (V)

T_A=25°C

1.5

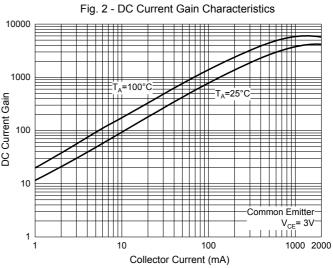


Fig. 4 - Collector-Emitter Saturation Voltage Characteristics

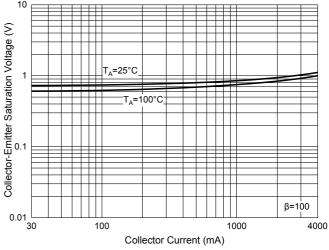
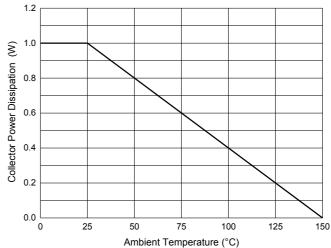


Fig. 6 - Collector Power Derating Curve



100

10 └─ 0.0

0.5

2.0



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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