

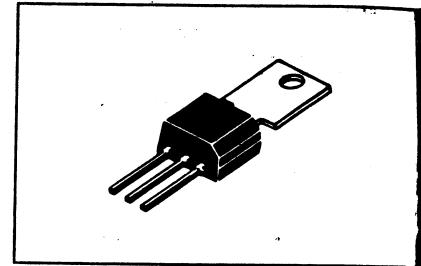
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MAXIMUM RATINGS					
Rating	Symbol	2N6554	2N6555	2N6556	Unit
*Collector-Emitter Voltage	V _{CEO}	60	80	100	Vdc
*Collector-Base Voltage	V _{CBO}	60	80	100	Vdc
*Emitter-Base Voltage	V _{EBO}	—	5.0	—	Vdc
*Collector Current - Continuous Peak	I _C	—	1.0	—	Adc
		—	2.0	—	
*Base Current	I _B	—	100	—	mAdc
*Total Power Dissipation @ T _A = 25°C Derate above 25°C	P _D	—	2.0	—	Watts mW/°C
Total Power Dissipation @ T _C = 25°C Derate above 25°C	P _D	—	10	—	Watts mW/°C
		—	80	—	
*Operating and Storage Junction Temperature Range	T _J , T _{stg}	—	—	55 to +150	°C
*Solder Temperature, 1/16" from Case for 10 Seconds	—	—	260	—	°C

THERMAL CHARACTERISTICS					
Characteristic	Symbol	Max	Unit		
Thermal Resistance, Junction to Ambient	R _{θJA}	62.5	°C/W		
Thermal Resistance, Junction to Case	R _{θJC}	12.5	°C/W		



ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted.)

Characteristic	Symbol	Min	Max	Unit
OFF CHARACTERISTICS				
Collector-Emitter Breakdown Voltage (I _C = 1.0 mAdc, I _B = 0)	V _{CEO}	60	—	Vdc
2N6554		80	—	
2N6555		100	—	
2N6556		—	—	
Collector-Base Breakdown Voltage (I _C = 100 μAdc, I _E = 0)	V _{CBO}	60	—	Vdc
2N6554		80	—	
2N6555		100	—	
2N6556		—	—	
Emitter-Base Breakdown Voltage (I _E = 100 μAdc, I _C = 0)	V _{EBO}	5.0	—	Vdc
Collector Cutoff Current (V _{CB} = 40 Vdc, I _E = 0)	I _{CBO}	—	100	nAdc
(V _{CB} = 60 Vdc, I _E = 0)	2N6554	—	100	
(V _{CB} = 80 Vdc, I _E = 0)	2N6555	—	100	
(V _{CB} = 100 Vdc, I _E = 0)	2N6556	—	100	
Emitter Cutoff Current (V _{EB} = 4.0 Vdc, I _C = 0)	I _{EBO}	—	100	nAdc
ON CHARACTERISTICS (1)				
DC Current Gain (I _C = 10 mAdc, V _{CE} = 1.0 Vdc)	h _{FE}	60	—	
(I _C = 50 mAdc, V _{CE} = 1.0 Vdc)		80	300	
(I _C = 250 mAdc, V _{CE} = 1.0 Vdc)		60	—	
(I _C = 500 mAdc, V _{CE} = 1.0 Vdc)		25	—	
Collector-Emitter Saturation Voltage (I _C = 250 mAdc, I _B = 10 mAdc)	V _{CE(sat)}	—	0.5	Vdc
(I _C = 1.0 Adc, I _B = 100 mAdc)		—	1.0	
Base Emitter On Voltage (I _C = 250 mAdc, V _{CE} = 5.0 Vdc)	V _{BE(on)}	—	1.2	Vdc
DYNAMIC CHARACTERISTICS				
Current-Gain - Bandwidth Product (I _C = 100 mAdc, V _{CE} = 5.0 Vdc, f = 20 MHz)	f _T	75	375	MHz
Collector-Base Capacitance (V _{CB} = 20 Vdc, I _E = 0, f = 1.0 MHz)	C _{cb}	—	18	pF

* Indicates JEDEC Registered Data.

** Pulse Test: Pulse Width ≤ 300 μs, Duty Cycle ≤ 2.0%.



Quality Semi-Conductors