20 STERN AVE. SPRINGFIELD, NEW JERSEY 07081 U.S.A. TELEPHONE: (973) 376-2922 (212) 227-6005

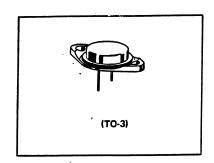
FAX: (973) 376-8960

2N2137 (GERMANIUM)

PNP germanium industrial power transistors for driver applications in high reliability equipment.

MAXIMUM RATINGS

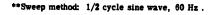
Rating .	Symbol		Unit
Collector-Base Voltage	v _{CB}	30	Vdc
Collector-Emitter Voltage	VCES	30	Vdc
Collector-Emitter Voltage	V _{CEO}	20	Vdc
Emitter-Base Voltage	V _{EB}	15	Vdc
Total Device Dissipation @ T _C = 25°C Derate above 25°C	P _D	70 0, 833	Watts W/°C
Operating and Storage Junction Temperature Range	T _J , T _{stg}	-65 to +11	0 °C



ELECTRICAL CHARACTERISTICS

*Characteristics apply also to corresponding, non-A type numbers.

Characteristic	Symbol	Min	Тур	Max	Unit
FF CHARACTERISTICS					
Collector-Emitter Breakdown Voltage** (I _C = 500 mAde, I _R = 0)	BV _{CEO} **	20			Vdc
Collector-Emitter Breakdown Voltage** (I _C = 300 mAdc, V _{BE} = 0)	BV _{CES} **	30	-	-	Vdc
Floating Potential (V _{CB} = 30 Vdc, I _E = 0)	V _{EBF}	-	-	1. 0	Vdc
Collector-Base Cutoff Current (V _{CB} = 2.0 Vdc, I _E = 0)	^I сво	-	0. 018	0. 05	mAd
$(V_{CB} = V_{CB(max)}, I_{C} = 0, T_{C} = +71^{\circ}C)$	1	-	0. 75	5.0	
Collector-Base Cutoff Current† (VCB = VCB(max), L = 0)	I _{CBO1}		0.1	2.0	mAd
Emitter-Base Cutoff Current (VBE = VBE(max), IC = 0)	I _{EBO}	-	0.08	2.0	mAd
$(V_{BE} = V_{BE(max)}, I_{C} = 0, T_{C} = +71^{\circ}C)$		-	0.5	5.0	
CHARACTERISTICS					
DC Current Gain $(I_C = 0.5 \text{ Adc}, V_{CE} = 2.0 \text{ Vdc}) \dagger$	h _{FE1} ,	30	45	60	•
(I _C = 2.0 Adc, V _{CE} = 2.0 Vdc)	h _{FE}	15	22	-	
Collector-Emitter Saturation Voltage (I _C = 2.0 Adc, I _B = 200 mAdc)	V _{CE(sat)}	-	0. 12	0.5	Vdc
Base-Emitter Saturation Voltage (I _C = 2.0 Adc, I _B = 200 mAdc)	V _{BE(sat)}	-	0. 75	1.2	Vdc
NAMIC CHARACTERISTICS					
Common Emitter Cutoff Frequency (I _C = 2.0 Adc, V _{CE} = 6.0 Vdc)	f are	12	20	. 1	kHz





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