

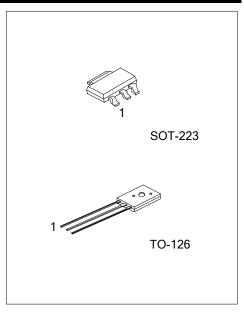
BD137

NPN SILICON TRANSISTOR

NPN POWER TRANSISTORS

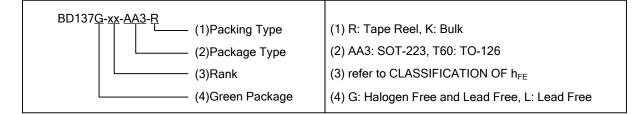
FEATURES

- * High current (max.1.5A)
- * Low voltage (max.60V)



ORDERING INFORMATION

Ordering Number		Deekege	Pin Assignment			Dooking	
Lead Free	Halogen Free	Package	1	2	3	Packing	
-	BD137G-x-AA3-R	SOT-223	В	С	E	Tape Reel	
BD137L-xx-T60-K	BD137G-xx-T60-K	TO-126	Е	С	В	Bulk	



MARKING



ABSOLUTE MAXIMUM RATING

PARAMETER		SYMBOL	RATINGS	UNIT
Collector-Base Voltage		V _{CBO}	60	V
Collector-Emitter Voltage		V _{CEO}	60	V
Emitter-Base Voltage		V _{EBO}	5	V
Collector Current (DC)		lc	1.5	А
Peak Collector Current		I _{СМ}	3.0	А
Peak Base Current		I _{BM}	0.5	А
Power Dissipation (T _A =25°C)	SOT-223	- P _D	1	W
	TO-126		1.25	W
Junction Temperature		TJ	+150	°C
Operating Temperature		T _{OPR}	-55~+150	°C
Storage Temperature		T _{STG}	-55~+150	°C

Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

■ ELECTRICAL CHARACTERISTICS (T_J=25°C, unless otherwise specified)

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PARAMETER		SYMBOL	TEST CONDITIONS		MIN	TYP	MAX	UNIT	
Collector-Emitter Voltage (Note)		V _{CEO}	I _C =30mA, I _B =0		60			V	
Collector Cut-Off Current		I _{CBO}	I _E =0, V _{CB} =30V				100	nA	
			I _E =0, V _{CB} =30V, T _J =125°C				10	μA	
Emitter Cut-Off Current		I _{EBO}	I _C =0, V _{EB} =5V				10	μA	
DC Current Gain (Note)			V _{CE} =2V	I _C =5mA	25				
				I _C =150mA	40		160		
		h _{FE}		I _C =500mA	25				
DC Current Gain (Note)	BD137-6		I _C =150mA, V _{CE} =2V		40		100		
	BD137-10				63		160		
Collector-Emitter Saturation Voltage (Note)		V _{CE(SAT)}	I _C =500mA, I _B =50mA				0.5	V	
Base-Emitter Voltage (Note)		V _{BE}	I _C =500mA, V _{CE} =2V				1	V	
Transition Frequency		f⊤	I _C =500mA, V _{CE} =5V, f=100MHz			190		MHz	

Note: Pulse Test: Pulse Width \leq 300µS, Duty Cycle \leq 2%.

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