Micro Commercial Components

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2SD669(A)
2SD669(A)-B
2SD669(A)-C
2SD669-D

NPN Silicon Plastic-Encapsulate Transistor

Features

- Lead Free Finish/RoHS Compliant (Note1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1
- Capable of 1 Watts of Power Dissipation.
- Collector-current 1.5A
- Collector-base Voltage 180V
- Operating and storage junction temperature range: -55°C to +150°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

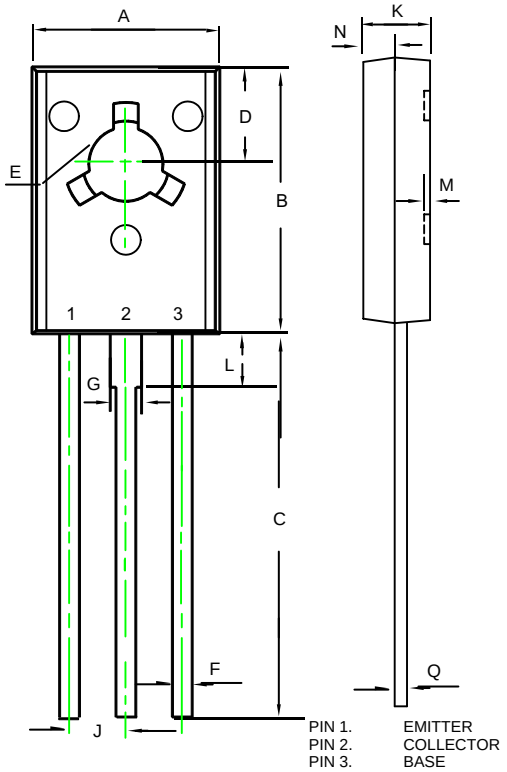
Symbol	Parameter		Min	Max	Units
OFF CHARACTERISTICS					
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage (I_C=10mAdc, I_B=0)	2SD669 2SD669A	120 160	--- ---	Vdc Vdc
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage (I_C=1mAdc, I_E=0)		180	---	Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage (I_E=1mAdc, I_C=0)		5.0	---	Vdc
I_{CBO}	Collector Cutoff Current (V_{CB}=160Vdc, I_E=0)		---	10	uAdc
I_{EBO}	Emitter Cutoff Current (V_{EB}=4Vdc, I_C=0)		---	10	uAdc
ON CHARACTERISTICS					
h_{FE-1}	DC Current Gain (I_C=150mAdc, V_{CE}=5Vdc)	2SD669 2SD669A	60 60	320 200	--- ---
h_{FE-2}	DC Current Gain (I_C=500mAdc, V_{CE}=5Vdc)		30	---	---
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage (I_C=500mAdc, I_B=50mAdc)		---	1.0	Vdc
V_{BE}	Base-Emitter Saturation Voltage (V_{CE}=5Vdc, I_C=150mAdc)		---	1.5	Vdc
f_T	Transition Frequency (V_{CE}=5Vdc, I_C=150mAdc)		140(TYP)		MHz
C_{ob}	Collector output capacitance (V_{CB}=10Vdc, I_E=0,f=1MHz)		14(TYP)		pF

CLASSIFICATION OF H_{FE}

Rank	B	C	D
Range 2SD669	60-120	100-200	160-320
2SD669A	60-120	100-200	

Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7.

TO-126



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	0.291	0.307	7.40	7.80	
B	0.417	0.433	10.60	11.00	
C	0.602	0.618	15.30	15.70	
D	0.154	0.161	3.90	4.10	
E	0.118	0.126	3.00	3.20	
F	0.026	0.034	0.66	0.86	
G	0.046	0.054	1.17	1.37	
J	0.090TYP		2.290TYP		
K	0.098	0.114	2.50	2.90	
L	0.083	0.091	2.10	2.30	
M	0.000	0.012	0.00	0.30	
N	0.043	0.059	1.10	1.50	
Q	0.018	0.024	0.45	0.60	

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Ordering Information :

Device	Packing
Part Number-BP	Bulk;1Kpcs/Box

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