

Micro Commercial Components



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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 (L=10mAdc, L=0) 2SD669 2SD669A	120 160		Vdc Vdc	
V _{(BR)CBO}	Collector-Base Breakdown Voltage (L=1mAdc, I _E =0)	180		Vdc	
V _{(BR)EBO}	Emitter-Base Breakdown Voltage (l _E =1mAdc, l _C =0)	5.0		Vdc	
сво	Collector Cutoff Current (V _{CB} =160Vdc, I _E =0)		10	uAdc	
I _{EBO}	Emitter Cutoff Current (V _{EB} =4Vdc,		10	uAdc	
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ON CHARACTERISTICS

h _{FE-1}	DC Current Gain			
	(L=150mAdc, V _{CE} =5Vdc) 2SD669	60	320	
	2SD669A	60	200	
h _{FE-2}	DC Current Gain	30		
	(L=500mAdc, V _{CE} =5Vdc)			
V _{CE(sat)}	Collector-Emitter Saturation Voltage		1.0	Vdc
	(L=500mAdc, I _B =50mAdc)			
V _{BE}	Base-Emitter Saturation Voltage		1.5	Vdc
	(V _{CE} =5Vdc, I _C =150mAdc)			
f⊤	Transition Frequency	140(TYP)		MHz
	(V _{CE} =5Vdc, I _C =150mAdc)		,	
C _{ob}	Collector output capacitance	14(TYP)		pF
	(V _{CB} =10Vdc, I _E =0,f=1MHz)	1-1(,	P

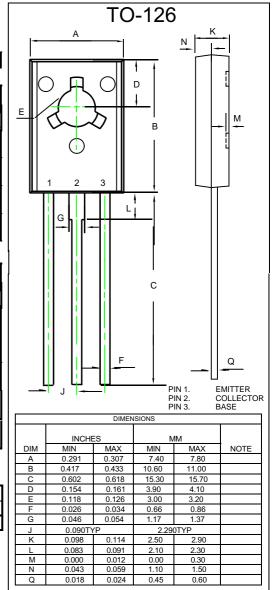
CLASSIFICATION OF H

Rank	В	С	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.

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

NPN Silicon Plastic-Encapsulate Transistor



www.mccsemi.com



Ordering Information :

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

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