



Micro Commercial Components



Micro Commercial Components
20736 Marilla Street Chatsworth
CA 91311
Phone: (818) 701-4933
Fax: (818) 701-4939

2SC2668-R
2SC2668-O
2SC2668-Y

Features

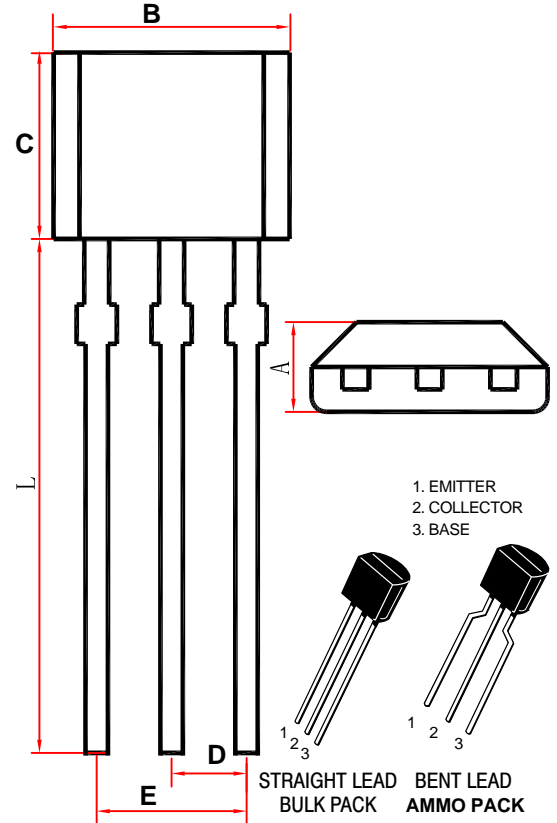
- Lead Free Finish/Rohs Compliant ("P" Suffix designates Compliant. See ordering information)
Epoxy meets UL 94 V-0 flammability rating
Moisture Sensitivity Level 1
Small Reverse Transfer Capacitance
Low Noise Figure
Halogen free available upon request by adding suffix "-HF"

MAXIMUM RATINGS (Ta=25°C unless otherwise noted)

Table with 5 columns: Symbol, Parameter, Value, Unit, and an empty column. Rows include V\_CBO, V\_CEO, V\_EBO, I\_C, P\_C, T\_J, and T\_stg.

NPN
Plastic-Encapsulate
Transistors

TO-92S



DIMENSIONS table with columns for DIM, INCHES (MIN, MAX), MM (MIN, MAX), and NOTE. Rows include dimensions A, B, C, D, E, and L.

\* For ammo packing detailed specification, click here to visit our website of product packaging for details.

## 2SC2668-R/O/Y

### ELECTRICAL CHARACTERISTICS (T<sub>a</sub>=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V <sub>(BR)CBO</sub>	I <sub>C</sub> = 100μA, I <sub>E</sub> = 0	40			V
Collector-emitter breakdown voltage	V <sub>(BR)CEO</sub>	I <sub>C</sub> = 1mA, I <sub>B</sub> = 0	30			V
Emitter-base breakdown voltage	V <sub>(BR)EBO</sub>	I <sub>E</sub> = 100μA, I <sub>C</sub> = 0	4			V
Collector cut-off current	I <sub>CBO</sub>	V <sub>CB</sub> = 40V, I <sub>E</sub> = 0			0.5	μA
Emitter cut-off current	I <sub>EBO</sub>	V <sub>EB</sub> = 4V, I <sub>C</sub> = 0			0.5	μA
DC current gain	h <sub>FE</sub>	V <sub>CE</sub> = 6V, I <sub>C</sub> = 1mA	40		200	
Reverse Transfer Capacitance	C <sub>re</sub>	V <sub>CE</sub> = 6V, f = 1MHz		0.7		pF
Collector-Base Time Constant	C <sub>c</sub> · r <sub>bb</sub> '	V <sub>CE</sub> = 6V, I <sub>E</sub> = -1mA, f = 30MHz			30	ps
Transition frequency	f <sub>T</sub>	V <sub>CE</sub> = 6V, I <sub>C</sub> = 1mA		550		MHz
Power Gain	G <sub>pe</sub>	V <sub>CC</sub> = 6V, I <sub>C</sub> = 1mA, f = 100MHz		18		dB
Noise figure	NF	V <sub>CC</sub> = 6V, I <sub>C</sub> = 1mA, f = 100MHz			5	dB

### CLASSIFICATION OF h<sub>FE</sub>

Rank	R	O	Y
Range	40-80	70-140	100-200



Micro Commercial Components

Ordering Information :

Device	Packing
Part Number-AP	Ammo Packing: 30Kpcs/Carton
Part Number-BP	Bulk: 100Kpcs/Carton

Note : Adding "-HF" suffix for halogen free, eg. Part Number-AP-HF

\*\*\*IMPORTANT NOTICE\*\*\*

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. Micro Commercial Components Corp. does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold Micro Commercial Components Corp. and all the companies whose products are represented on our website, harmless against all damages.

\*\*\*LIFE SUPPORT\*\*\*

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

\*\*\*CUSTOMER AWARENESS\*\*\*

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources. MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.