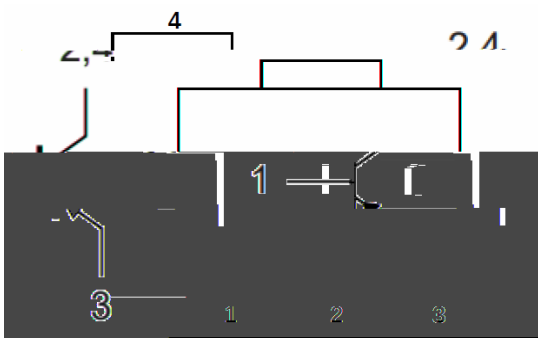


Epoxy meets UL-94 V-0 flammability rating
 Moisture Sensitivity Level 1
 High power dissipation capability
 Part no. with suffix "Q" means AEC-Q101 qualified

Linear voltage regulators Low-side switches
 Battery-driven devices MOSFET drivers
 Amplifiers

: SOT-223

Tin plated leads, solderable per
 J-STD-002 and JESD22-B102
 BCP51-16



(Example)

BCP51-16Q	F-	Approximate		2500	5000	F	F



(Ta=25 unless otherwise noted)

Collector-Emitter Voltage	V_{CEO}	V	-45
Collector-Base Voltage	V_{CBO}	V	-45
Emitter-Base Voltage	V_{EBO}	V	-5
Collector Current	I_C	A	-1
Power Dissipation (*)	P_D	W	1.5
Thermal Resistance From Junction To Ambient (*)	R_{JA}	/W	83.3
Thermal Resistance From Junction To Solder Point	R_{JS}	/W	16
Operation Junction Temperature	T_j		-55 to +150
Storage Temperature	T_{stg}		-55 to +150

(*) Device mounted on FR-4 PCB 1.575 x 1.575 x 0.0625 inch; mounting pad for collector =0.93 sq in

(Ta=25 unless otherwise noted)

Collector-base breakdown voltage	V_{CBO}	V	$I_C = -100\text{ A}, I_E = 0$	-45	-	-
Collector-emitter breakdown voltage	V_{CEO}	V	$I_C = -10\text{ mA}, I_B = 0$	-45	-	-
Emitter-base breakdown voltage	V_{EBO}	V	$I_E = -100\text{ A}, I_C = 0$	-5	-	-



(Typical)

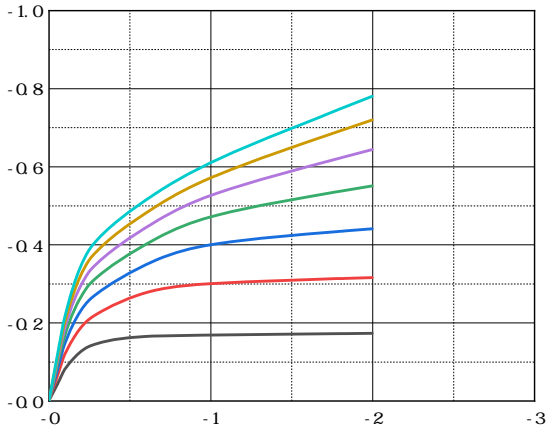


Fig 3 - Collector-Emitter Saturation Voltage



C B

Base-Emitter Voltage V

EV

t BV/t.

4

B



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