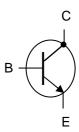


2N5679 - 2N5680

PNP SWITCHING TRANSISTORS

The 2N5679 and 2N5680 are silicon expitaxial planar PNP transistors in jedec TO-39 metal case. They are intended for use as drivers for high power transistors in general purpose, amplifier and switching circuit. The complementary NPN types are the 2N5681 and 2N5682. Compliance to RoHS.



ABSOLUTE MAXIMUM RATINGS

Cymphal	Datings		Val	I Incit		
Symbol	Ratings		25679	2N5680	Unit	
V _{CEO}	Collector-Emitter Voltage	I _B =0	-100	-120	V	
V _{CBO}	Collector-Base Voltage	I _E =0	-100	-120	V	
V_{EBO}	Emitter-Base Voltage	I _C =0	-4		V	
Ic	Collector Current		-1		Α	
I _B	Base Current		-500		mA	
D	Total Dawer Dissipation	T _{amb} = 25℃	1		W	
P _D	Total Power Dissipation	T _{case} = 25℃	10		- vv	
TJ	Junction Temperature		20	0	ۍ د	
T _{Stg}	Storage Temperature range		-65 to	+150		

THERMAL CHARACTERISTICS

Symbol	Ratings	Value	Unit
R _{thJ-a}	Thermal Resistance, Junction to ambient	175	℃/W
R _{thJ-c}	Thermal Resistance, Junction to case	17.5	€/W



2N5679 - 2N5680

ELECTRICAL CHARACTERISTICS

Tj=25℃ unless otherwise specified

Symbol	Ratings	Test Condition(s)		Min	Тур	Mx	Unit
	Collector Cutoff	$V_{CB} = -100 \text{ V}, I_{E} = 0$	2N5679		-	-1	μΑ
I _{CBO}	Current	$V_{CB} = -120 \text{ V}, I_{E} = 0$	2N5680] -			
1	Collector Cutoff	$V_{CE} = -70 \text{ V}, I_{B} = 0$	2N5679		-	-10	μΑ
I _{CEO}	Current	$V_{CE} = -80 \text{ V}, I_{B} = 0$	2N5680	_			
		$V_{CE} = -100 \text{ V}, V_{BE} = 1.5 \text{ V}$	2N5679		-	-1	μΑ
		$V_{CE} = -120 \text{ V}, V_{BE} = 1.5 \text{ V}$	2N5680	_			
I _{CEV}	Collector Cutoff Current	$V_{CE} = -100 \text{ V}, V_{BE} = 1.5 \text{ V}$ $T_{C} = 150 \text{ C}$	2N5679	_	-	-1	mA
		$V_{CE} = -120 \text{ V}, V_{BE} = 1.5 \text{ V}$ $T_{C} = 150 \text{ C}$	2N5680				
	Emitter Cutoff	$V_{BF} = -4.0 \text{ V}, I_{C} = 0$	2N5679		-	-1	μA
I _{EBO}	Current	V _{BE} = -4.0 V, I _C = 0	2N5680	i -			
v	Collector Emitter	$I_{\rm C} = -10 \text{ mA}, I_{\rm B} = 0$	2N5679	-100	ı	ı	
V _{CEO(sus)}	Sustaining voltage (*)	$I_C = -10$ IIIA, $I_B = 0$	2N5680	-120	ı	ı	
		$I_{C} = -250 \text{ mA}$	2N5679	_	-	-0.6	V
		$I_B = -25 \text{ mA}$	2N5680	_			
V _{CE(SAT)}	Collector-Emitter	$I_{C} = -500 \text{ mA}$	2N5679		-	-1	
♥ CE(SAT)	saturation Voltage (*)	$I_B = -50 \text{ mA}$	2N5680	_			
		$I_C = -1 A$	2N5679	<u> </u>	-	-2	
		$I_B = -200 \text{ mA}$	2N5680	_			
V _{BE}	Base-Emitter Voltage	$I_{\rm C} = -250 \text{ mA}, V_{\rm CE} = -2 \text{ V}$	2N5679	<u> </u>	-	-1	
▼ BE	(*)	10 = -230 HIA, VCE = -2 V	2N5680	_			
		$I_C = -250 \text{ mA}, V_{CE} = -2 \text{ V}$	2N5679	40	_	150	
h _{FE}	DC Current Gain (*)	1C = -230 111A, VCE = -2 V	2N5680	40	_	130	
· · · · · · · · · · · · · · · · · · ·	Bo durient dam ()	$I_C = -1 A, V_{CE} = -2 V$	2N5679 2N5680	5	-	-	
f⊤	Transition frequency	$I_C = -100 \text{ mA}, V_{CE} = -10 \text{ V}$	2N5679	30		-	MHz
T	f = 10 MHz 2N5680	2N5680	30	_	_	IVIITZ	
Сов	Output Capacitance	$I_E = 0$, $V_{CB} = -20 \text{ V}$	2N5679	5680	-	50	pF
OOR	Odiput Odpaolianoe	f = 1MHz	2N5680				
h _{fe}	Small Signal Current	$I_C = -200 \text{ mA}, V_{CE} = -1.5 \text{ V}$	2N5679	40	-	_	-
· ·re	Gain	f = 1 kHz	2N5680			-	

^(*) Pulse Width \approx 300 μ s, Duty Cycle \angle 2.0%

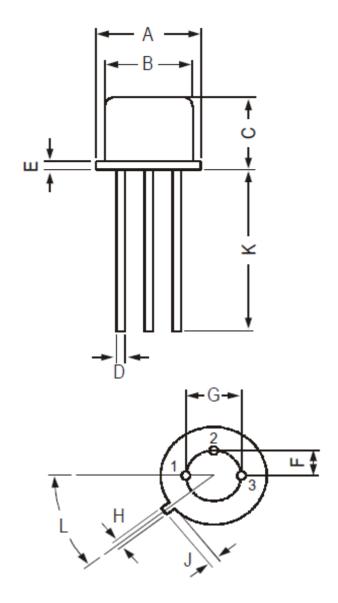


2N5679 - 2N5680

MECHANICAL DATA CASE TO-39

DIMENSIONS (mm)			
	min	max	
Α	8.50	9.39	
В	7.74	8.50	
С	6.09	6.60	
D	0.40	0.53	
Е	-	0.88	
F	2.41	2.66	
G	4.82	5.33	
Н	0.71	0.86	
J	0.73	1.02	
K	12.70	-	
L	42°	48°	

Emitter	Pin 1 :
Base	Pin 2 :
Collector	Pin 3 :
Collector	Case :



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