

2SC2983-Y-TP Datasheet

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DiGi Electronics Part Number 2SC2983-Y-TP-DG

Manufacturer Micro Commercial Co

Manufacturer Product Number 2SC2983-Y-TP

Description TRANS NPN 160V 1.5A DPAK

Detailed Description Bipolar (BJT) Transistor NPN 160 V 1.5 A 100MHz 1 W

Surface Mount DPAK

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DiGi is a global authorized distributor of electronic components.



Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
2SC2983-Y-TP	Micro Commercial Co
Series:	Product Status:
	Obsolete
Transistor Type:	Current - Collector (Ic) (Max):
NPN	1.5 A
Voltage - Collector Emitter Breakdown (Max):	Vce Saturation (Max) @ lb, lc:
160 V	1.5V @ 50mA, 500mA
Current - Collector Cutoff (Max):	DC Current Gain (hFE) (Min) @ Ic, Vce:
1μA (ICBO)	70 @ 100mA, 5V
Power - Max:	Frequency - Transition:
1 W	100MHz
Operating Temperature:	Mounting Type:
150°C (TJ)	Surface Mount
Package / Case:	Supplier Device Package:
TO-252-3, DPAK (2 Leads + Tab), SC-63	DPAK
Base Product Number:	
2SC2983	

Environmental & Export classification

8541.29.0075

RoHS Status:	Moisture Sensitivity Level (MSL):
ROHS3 Compliant	1 (Unlimited)
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	





Micro Commercial Components

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Features

- Low Collector Saturation Voltage
- Execllent current-to-gain characteristics
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"

Maximum Ratings

Symbol	Rating	Rating	Unit
V_{CEO}	Collector-Emitter Voltage	160	V
V_{CBO}	Collector-Base Voltage	160	V
V_{EBO}	Emitter-Base Voltage	5.0	V
Ic	Collector Current	1.5	Α
Pc	Collector power dissipation	1.0	W
TJ	Junction Temperature	150	$^{\circ}\!\mathbb{C}$
T _{STG}	Storage Temperature	-55 to +150	$^{\circ}\!\mathbb{C}$

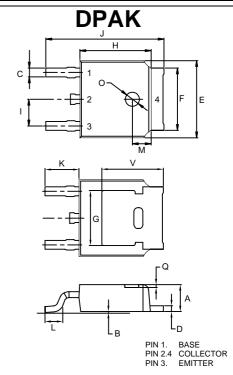
Electrical Characteristics @ 25° C Unless Otherwise Specified

Symbol	Parameter	Min	Тур	Max	Units
V _{(BR)CBO}	Collector-base Breakdown Voltage (I _C =1.0mAdc, I _E =0)				Vdc
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage (I _C =10mAdc, I _B =0)	160			Vdc
$V_{(BR)EBO}$	Emitter-base Breakdown Voltage $(I_E=1.0 \text{mAdc}, I_C=0)$	5			Vdc
I _{CBO}	Collector-Base Cutoff Current (V _{CB} =160Vdc,I _E =0)			1.0	μAdc
I _{EBO}	Emitter-Base Cutoff Current (V _{EB} =5Vdc, I _C =0)			1.0	μAdc
h _{FE(1)}	DC Current Gain (I _C =100mAdc, V _{CE} =5.0Vdc)	70		240	
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage (I _C =0.5Adc, I _B =-50mAdc)			1.5	Vdc
V_{BE}	Base-Emitter Voltage (V _{CE} =5Vdc, I _C =500mAdc)			1.0	Vdc
f _⊤	Transition Frequency (V _{CE} =10Vdc, I _C =100mAdc)		100		MHz
C _{ob}	Collector output capacitance (V _{CB} =10Vdc, I _E =0,f=1.0MHz)		25		pF

CLASSIFICATION OF HEED

Rank	0	Υ	
Range	70-140	120-240	

NPN Plastic-Encapsulate Transistors



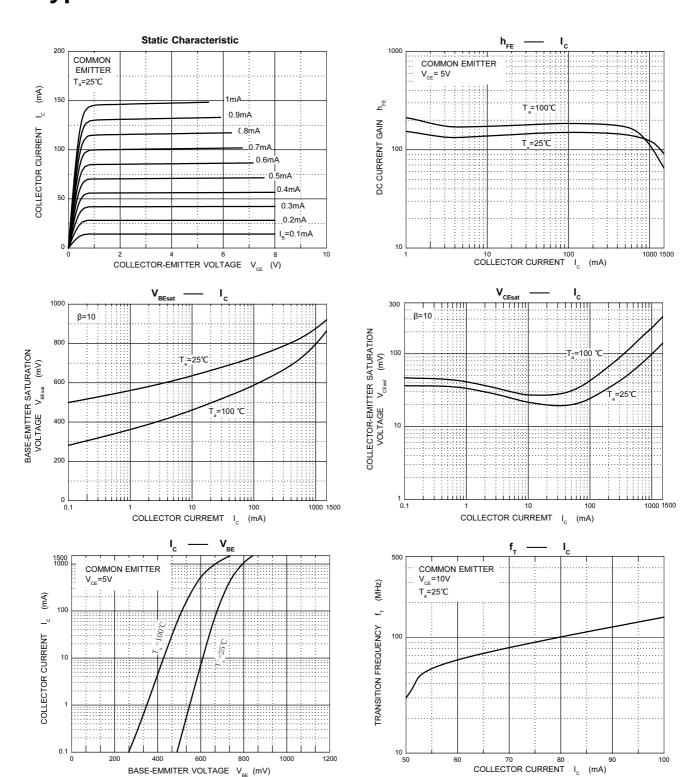
	DIMENSIONS				
	INCHES MM				
DIM	MIN	MAX	MIN	MAX	NOTE
Α	0.087	0.094	2.20	2.40	
В	0.000	0.005	0.00	0.13	
С	0.026	0.034	0.66	0.86	
D	0.018	0.023	0.46	0.58	
Е	0.256	0.264	6.50	6.70	
F	0.201	0.215	5.10	5.46	
G	0.190		4.83		
Н	0.236	0.244	6.00	6.20	
_	0.086	0.094	2.18	2.39	
7	0.386	0.409	9.80	10.40	
K	0.114		2.90		
L	0.055	0.067	1.40	1.70	
М	0.063		1.60		
0	0.043	0.051	1.10	1.30	
Q	0.000	0.012	0.00	0.30	
V	0.				

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Typical Characteristics

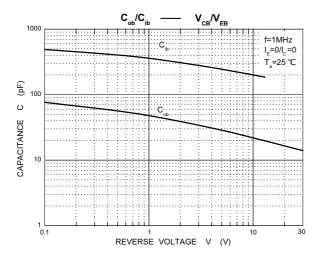
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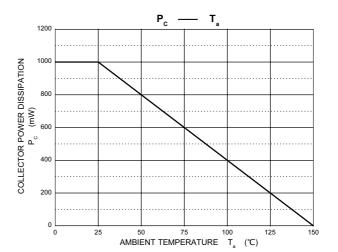


BASE-EMMITER VOLTAGE V_{BE} (mV)



Typical Characteristics







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Ordering Information:

Device	Packing
Part Number-TP	Tape&Reel: 2.5Kpcs/Reel

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

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