ethick industry corp.

Semicondecior Com.

CENTRAL SEMICONDUCTOR

查询"D4tE5"供应商

Centrol

92D 00380

ア-*33-1*7

92 DE

DE 1989963 0000380 3 041E1

D41E1 D41E5 D41E7

PNP SILICON POWER TRANSISTOR

JEDEC TO-202 CASE (EBC)

12.5

°C/W

Semiconductor Corp. Central ™ Semiconductor Corp.

145 Adams Avenue Hauppauge, New York 11788

DESCRIPTION

1

The CENTRAL SEMICONDUCTOR D41E series types are silicon PNP transistors manufactured by the epitaxial planar process designed for general purpose amplifier and switching applications. Device is available with a sheared tab by adding a "N" suffix to the part number.

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

	SYMBOL	D41E1	D41E5	<u>D41E7</u>	UNII
Collector - Emitter Voltage	VCES	40	70	90	٧
Collector - Emitter Voltage	VCEO	30	60	80	· V
Emitter - Base Voltage	V _{EBO}	5.0	5.0	5.0	V
Collector Current	I C	2.0	2.0	2.0	Α
Collector Current (Peak)	I CM	3.0	3.0	3.0	Α
Base Current	I B	500	500	500	mA
Power Dissipation (TA=25°C)	P_{D}^{D}	2.0	2.0	2.0	W
Power Dissipation	$P_{\mathbf{D}}^{\mathbf{D}}$	10	10	10	W
Operating and Storage	J				
Junction Temperature	TJ,TSTG	,	-65 TO +150	•	°C

Thermal Resistance Θ_{JC} ELECTRICAL CHARACTERISTICS (T_{C} =25°C unless otherwise noted)

		D41E1	D41E5	D41E/	
SYMBOL	TEST CONDITIONS	MIN MAX	MIN MAX	MIN MAX	<u>UNIT</u>
ICES	V _{CE} =RATED V _{CES}	0.1	0.1	0.1	μA
I _{EBO}	V _{EB} =5.0V	0.1	0.1	0.1	μΑ
BVCEO	I_C=10mA	30	60	80	V
VCE (SAT)	I _C =1.0A, I _B =0.1A	1.0	1.0	1.0	٧
VBE (SAT)	I _C =1.0A, I _B =0.1A	1.3	1.3	1.3	V
hFE	V _{CF} =2.0V, I _C =100mA	50	50	50	
hFE	V _{CE} =2.0V, I _C =1.0A	10	10	10	
fT	V _{CE} =10V, I _C =20mA	160 TYP	160 TYP	160 TYP	MHz
c _{ob}	V _{CB} =10V, f=1.0MHz	18 TYP	18 TYP	18 TYP	рF
ton	I _C =1.0A, I _{B1} =0.1A	160 TYP	160 TYP	160 TYP	ns
tOFF	$I_{C}=1.0A$, $I_{B1}=I_{B2}=0.1A$	350 TYP	350 TYP	350 TYP	ns