Excellent Integrated System Limited

Stocking Distributor

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Micro Commercial Components (MCC)
TIP110-BP

For any questions, you can email us directly: sales@integrated-circuit.com

Distributor of Micro Commercial Components (MCC): Excellent Integrated System Limite

Datasheet of TIP110-BP - TRANS NPN DARL 60V 2A TO-220AB

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com





Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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TIP110/111/112

eatures

- Halogen free available upon request by adding suffix "-HF"
- The complementary PNP types are the TIP115/116/117 respectively
- Lead Free Finish/RoHS Compliant (Note1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1
- Marking: Part number Mounting Torgue: 5 in-lbs Maximum

Silicon NPN **Darlington Power Transistor**

Absolute Maximum Ratings @ T_a = 25°C (unless otherwise noted)			
Symbol	Parameter	Value	Unit
V _{CBO} TIP110 TIP111 TIP112	Collector-base voltage (Open emitter)	60 80 100	V
VCEO TIP110 TIP111 TIP112	Collector-emitter voltage (Open base)	60 80 100	V
V_{EBO}	Emitter-base Voltage(Open collector)	5	V
Ic	Collector Current	2	А
I _{CM}	Collector Current Pulse	4	Α
IΒ	Base Current	0.05	Α
Pc	Total Device Dissipation(Ta=25°C)	2	W
	Total Device Dissipation(Tc=25°C)	50	W
TJ	Junction Temperature	150	$^{\circ}\mathbb{C}$
T_{STG}	Storage Temperature Range	-65 to +150	$^{\circ}\mathbb{C}$

Electrical Characteristics @	25°C Unles	ss Otherwise \$	Specified
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Symbol	Parameter	Min	Max	Units
V _{CEO(SUS)} TIP110 TIP111 TIP112	Collector-emitter sustaining voltage (I _C =30mA; I _B =0)	60 80 100		V
VCE(sat)	Collector-emitter Saturation Voltage (I _C =2A I _B =-0.008A)		2.5	V
V_{BE}	Base-emitter Voltage (I _C =2A ; V _{CE} =4V)		2.8	V
I _{CBO} TIP110 TIP111 TIP112	Collector cut-off current $(V_{CB}=60V; I_{E}=0)$ $(V_{CB}=80V; I_{E}=0)$ $(V_{CB}=100V; I_{E}=0)$	1		mA
I _{CEO} TIP110 TIP111 TIP112	Collector cut-off current $(V_{CE}=30V; V_{EB}=0)$ $(V_{CE}=40V; V_{EB}=0)$ $(V_{CE}=50V; V_{EB}=0)$	2		mA
I _{EBO}	Emitter cut-off current $(V_{EB}=5V; I_C=0)$		2.0	mA
H_{fe}	DC current gain (I _C =1A; V _{CE} =4V) (I _C =2A; V _{CE} =4V)	1000 500		
C_OB	Output capacitance ($I_E=0$; $V_{CB}=-10V, f=0.1MHz$)		100	PF

TO-220AB BASE

DIMENSIONS					
	INC	INCHES MM			
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.560	.625	14.22	15.88	
В	.380	.420	9.65	10.67	
С	.140	.190	3.56	4.82	
D	.020	.045	0.51	1.14	
F	.139	.161	3.53	4.09	Ø
G	.190	.110	2.29	2.79	
Н		.250		6.35	
J	.012	.025	0.30	0.64	
K	.500	.580	12.70	14.73	
L	.045	.060	1.14	1.52	
N	.190	.210	4.83	5.33	
Q	.100	.135	2.54	3.43	
R	.080	.115	2.04	2.92	
S	.045	.055	1.14	1.39	
Т	.230	.270	5.84	6.86	
U		.050		1.27	
V	.045		1.15		

Notes:1.High Temperature Solder Exemption Applied, see EU Directive Annex 7.

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Ordering Information:

Device	Packing
Part Number-BP	Bulk; 1Kpcs/Box

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

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