

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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UML2N

Features

- Halogen free available upon request by adding suffix "-HF"
- 2SC5585 and RB521S-30 are housed independently
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1

MARKING:L2



TR MAXIMUM RATINGS (T_A=25°C unless otherwise noted)

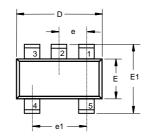
Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	60	V
V _{CEO}	Collector-Emitter Voltage	50	V
V _{EBO}	Emitter-Base Voltage	6	V
Ic	Collector Current -Continuous 150		mA
Pc	Collector Power Dissipation	150	mW
TJ	Junction Temperature 15		$^{\circ}$
T _{stg}	Storage Temperature -55 to150		$^{\circ}$

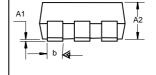
DIO Electrical Characteristics, Single Diode @T_A=25℃

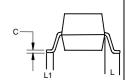
Parameter	Symbol	Тур	Unit
DC reverse voltage	V_R	80	V
Peak Reverse Voltage	V_{RM}	80	V
Forward Continuous Current	I _{FM}	300	mA
Average Rectified Output Current	Io	100	mA
Surge current	I _{SURGE}	4	Α
Junction temperature	Tj	150	$^{\circ}\!\mathbb{C}$
Storage temperature	T _{STG}	-55~+150	$^{\circ}\mathbb{C}$

ISOLATED TRANSISTOR AND DIODES









DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A1		.004		0.100	
A2	.035	.039	0.900	1.000	
b	.006	.014	0.150	0.350	
С	.003	.006	0.080	0.150	
D	0.79	.087	2.000	2.200	
Е	.045	.053	1.150	1.350	
E1	.085	.096	2.150	2.450	
е	.026TYP		0.650TYP		
e1	.047	.055	1.200	1.400	
L	.021REF		0.5		
L1	.010	.018	0.260	0.460	



TR ELECTRICAL CHARACTERISTICS (Ta=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =50μA,I _E =0	60			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =1mA,I _B =0	50			٧
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =50μA,I _C =0	6			>
Collector cut-off current	I _{CBO}	V _{CB} =60V,I _E =0			0.1	μΑ
Emitter cut-off current	I _{EBO}	V _{EB} =5V,I _C =0			0.1	μΑ
DC current gain	h _{FE}	V _{CE} =6V,I _C =1mA	120		560	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =50mA,I _B =5mA			0.4	V
Transition frequency	f⊤	V _{CE} =12V,I _C =2mA,f=100MHz		180		MHz
Collector output capacitance	C _{ob}	V _{CB} =12V,I _E =0,f=1MHz			3.5	pF

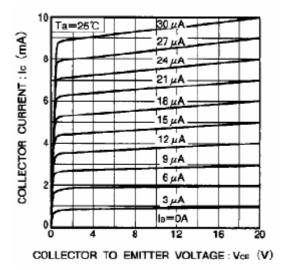
DIO Electrical Ratings @T_A=25℃

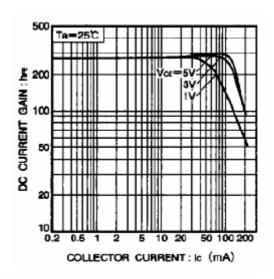
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	V _F			1.2	V	I _F =100mA
Reverse current	I _R			0.1	μΑ	V _R =70V
Capacitance between terminals	Ст			3.5	pF	V _R =6V,f=1MHz
Reverse Recovery Time	t _{rr}			4	ns	V_R =6 V , I_F =5 mA , R_L =50 Ω

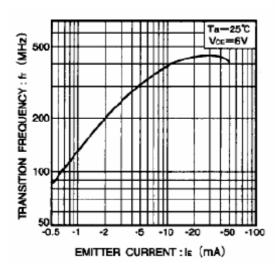


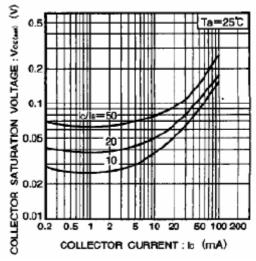


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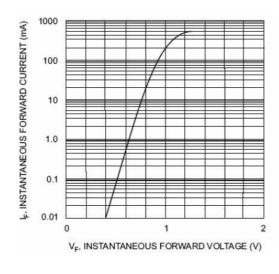


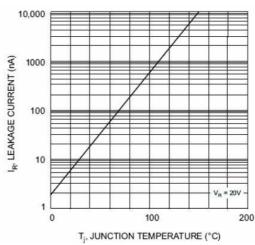






DIODES







Ordering Information:

Device	Packing			
Part Number-TP	Tape & Reel; 3 Kpcs/Reel			

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

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