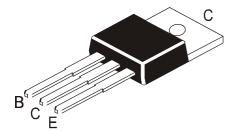




NPN PLASTIC MEDIUM DARLINGTON POWER TRANSISTORS



2N6387 2N6388

TO-220 Plastic Package

Designed for General Purpose Amplifier and Low Speed Switching Applications

DESCRIPTION		SYMBOL	2N6387	2N6388	UNIT	
Collector Emitter Voltage		V _{CEO}	60	80	V	
Collector Base Voltage		V _{CBO}	60	80	V	
Emitter Base Voltage		V _{EBO}	5.	V		
Collector Current Continuous		I _C	1(10		
Collector Current Peak		I _{CM}	15	А		
Base Current		I _B	25	mA		
Power Dissipation upto T _c =25°C	P _D		65	5	W	
Derate above 25°C			0.5	W/ºC		
Power Dissipation upto T _a =25°C		P _D	2.	0	W	
Derate above 25°C			16		mW/⁰C	
Operating and Storage Junction Temperature Range		$T_{j,}T_{stg}$	- 65 to	+150	°C	
THERMAL RESISTANCE						
Junction to Case	R _{th (j-c)}	R _{th (j-c)} 1.92			°C/W	
Junction to Ambient in free air	R _{th (j-a)}		62.5			

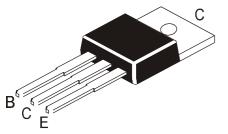
ELECTRICAL CHARACTERISTICS (T_c=25°C unless specified otherwise)

DESCRIPTION	SYMBOL	TEST CONDITION	2N6387		2N6388		LINUT
			MIN	MAX	MIN	MAX	UNIT
Collector Emitter (sus) Voltage	*V _{CEO(sus)}	I _C =200mA, I _B =0	60		80		V
Collector Cut Off Current	I _{CEO}	V _{CE} =60V, I _B =0		1.0			mA
		V _{CE} =80V, I _B =0				1.0	mA
Collector Cut Off Current	I _{CEX}	V_{CE} =60V, $V_{EB(Off)}$ =1.5V		300			μΑ
		V_{CE} =80V, $V_{EB(Off)}$ =1.5V				300	μA
		V_{CE} =60V, $V_{EB(Off)}$ =1.5V, T _C =125°C		3.0			mA
		V _{CE} =80V, V _{EB(Off)} =1.5V, T _C =125°C				3.0	mA
Emitter Cut Off Current	I _{EBO}	V _{EB} =5V, I _C =0	<5.0			mA	
DC Current Gain	*h _{FE}	I _C =5A,V _{CE} =3V	1000 - 20,000				
		I _C =10A, V _{CE} =3V		>1	00		
Collector Emitter Saturation	*V _{CE (sat)}	I _C =5A, I _B =0.01A	<2.0			V	
Voltage		I _C =10A, I _B =0.1A		<3	8.0		V
Base Emitter on Voltage	*V _{BE (on)}	I _C =5A,V _{CE} =3V		<2	2.8		
		I_{C} =10A, V_{CE} =3V		<4	.5		V

*Pulse Test : Pulse width <300ms, Duty Cycle <2% 2N6387_2N6388Rev 310505E

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ELECTRICAL CHARACTERISTICS (T_c=25°C unless specified otherwise)

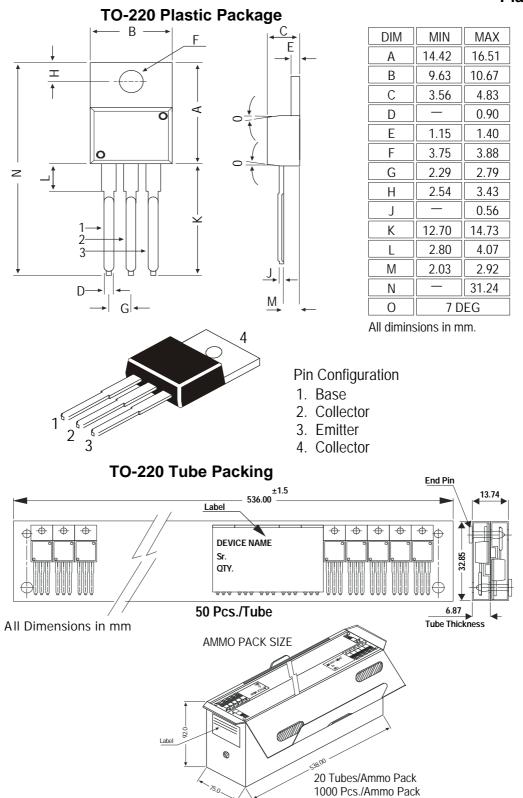
DYNAMIC CHARACTERISTIC

DESCRIPTION	SYMBOL	TEST CONDITION	MIN	MAX	UNIT
Small Signal Current Gain	lh _{fe} l	I _C =1A,V _{CE} =5V, f=1MHz	20		
Output Capacitance	C _{ob}	V _{CB} =10V, I _E =0, f=0.1MHz		200	pF
Small Signal Current Gain	h _{fe}	I _C =1A,V _{CE} =5V, f=1kHz	1000		

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TO-220 Plastic Package



Packing Detail

PACKAGE	STANDARD PACK		INNER CARTON BOX		OUTER CARTON BOX		
	Details	Net Weight/Qty	Size	Qty	Size	Qty	Gr Wt
TO-220 /FP	200 pcs/polybag 50 pcs/tube	396 gm/200 pcs 120 gm/50 pcs	3" x 7.5" x 7.5" 3.5" x 3.7" x 21.5"	1.0K 1.0K	17" x 15" x 13.5" 19" x 19" x 19"	16.0K 10.0K	36 kgs 29 kgs

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TO-220 Plastic Package

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