

MPS6521

- NPN General Purpose Amplifier

 This device is deisgned for general purpose amplifier applications at collector to 300mA.
- Sourced from process 10.



1. Emitter 2. Base 3. Collector

Absolute Maximum Ratings T_a=25°C unless otherwise noted

Symbol	Parameter	Value	Units
V _{CEO}	Collector-Emitter Voltage	25	V
V _{CBO}	Collector-Base Voltage	40	V
V _{EBO}	Emitter-Base Voltage	4.0	V
I _C	Collector Current - Continuous	100	mA
T _J , T _{STG}	Operating and Storage Junction Temperature Range	- 55 ~ 150	°C

Electrical Characteristics T_a =25°C unless otherwise noted

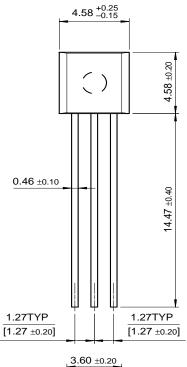
Symbol	Parameter	Test Condition	Min.	Max.	Units
Off Characte	eristics				
V _{(BR)CEO}	Collector-Emitter Sustaining Voltage *	$I_C = 500\mu A, I_B = 0$	25		V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	$I_E = 10\mu A, I_C = 0$	4		V
I _{CBO}	Emitter Cutoff Current	$V_{CB} = 30V, I_{E} = 0$		50	nA
On Characteristics					
h _{FE}	DC Current Gain	$V_{CE} = 10V, I_{C} = 100\mu A$	150		
		$V_{CE} = 10V, I_{C} = 2.0mA$	300	600	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	$I_C = 50 \text{mA}, I_B = 5.0 \text{mA}$		0.5	V

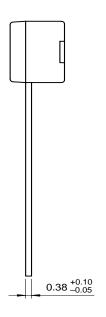
Thermal Characteristics $T_a=25^{\circ}C$ unless otherwise noted

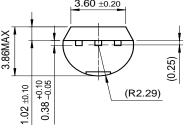
Symbol	Parameter	Max.	Units
P _D	Total Device Dissipation	625	mW
	Derate above 25°C	5	mW/°C
$R_{\theta JC}$	Thermal Resistance, Junction to Case	83.3	°C/W
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient	200	°C/W

Package Dimensions

TO-92







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The Power Franch Programmable Ac	nise™		.	
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