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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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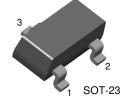




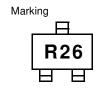
FJV3106R

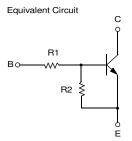
Switching Application (Bias Resistor Built In) - Switching circuit, Inverter, Interface circuit, Driver Circuit

- Built in bias Resistor ($R_1=10K\Omega$, $R_2=47K\Omega$)
- Complement to FJV4106R



1. Base 2. Emitter 3. Collector





NPN Epitaxial Silicon Transistor

Absolute Maximum Ratings T_a =25°C unless otherwise noted

Symbol	Parameter	Value	Units	
V_{CBO}	Collector-Base Voltage	50	V	
V _{CEO}	Collector-Emitter Voltage	50	V	
V _{EBO}	Emitter-Base Voltage	10	V	
I _C	Collector Current	100	mA	
P _C	Collector Power Dissipation	200	mW	
T _J	Junction Temperature	150	°C	
T _{STG}	Storage Temperature	-55 ~ 150	°C	

Electrical Characteristics T_a =25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	$I_{C}=10\mu A, I_{E}=0$	50			V
BV _{CEO}	Collector-Emitter Breakdown Voltage	$I_{C}=100\mu A, I_{B}=0$	50			V
I _{CBO}	Collector Cut-off Current	V_{CB} =40V, I_{E} =0			0.1	μΑ
h _{FE}	DC Current Gain	V _{CE} =5V, I _C =5mA	68			
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C =10mA, I _B =0.5mA			0.3	V
C _{ob}	Output Capacitance	V _{CE} =10mA, I _E =0 f=1.0MHz		3.7		pF
f _T	Current Gain Bandwidth Product	V _{CB} =10V, I _C =5mA		250		MHz
V _I (off)	Input Off Voltage	V _{CE} =5V, I _C =100μA	0.3			V
V _I (on)	Input On Voltage	V_{CE} =0.3V, I_{C} =1mA			1.4	V
R ₁	Input Resistor		7	10	13	ΚΩ
R ₁ /R ₂	Resistor Ratio		0.19	0.21	0.24	

V_{CE} =0.3V

Typical Characteristics

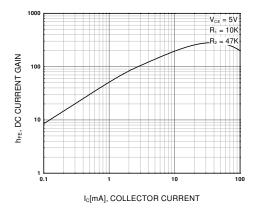


Figure 1. DC current Gain

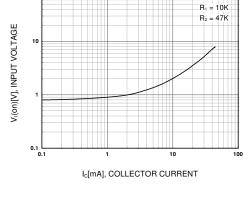


Figure 2. Input On Voltage

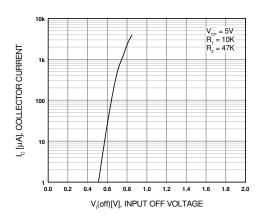


Figure 3. Input Off Voltage

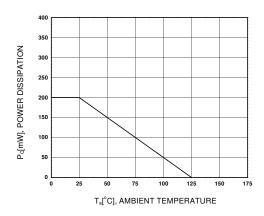
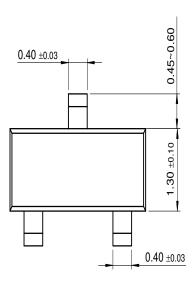
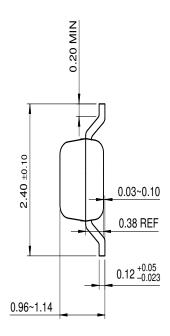


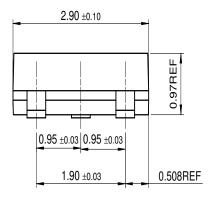
Figure 4. Power Derating

Package Dimensions

SOT-23







Dimensions in Millimeters

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CoolFET™	FASTr™	MicroFET™	PowerTrench®	SuperSOT™-6
CROSSVOLT™	FRFET™	MicroPak™	QFET™	SuperSOT™-8
DOME™	GlobalOptoisolator™	MICROWIRE™	QS™	SyncFET™
EcoSPARK™	GTO™ [']	MSX™	QT Optoelectronics™	TinyLogic™
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