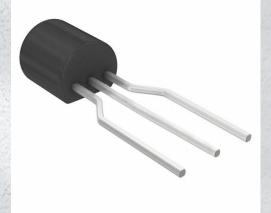


KSP5179TA Datasheet

www.digi-electronics.com



KSP5179TA-DG
onsemi
KSP5179TA
TRANS NPN 12V 0.05A TO92-3
Bipolar (BJT) Transistor NPN 12 V 50 mA 2GHz 200 m W Through Hole TO-92-3

https://www.DiGi-Electronics.com



Tel: +00 852-30501935

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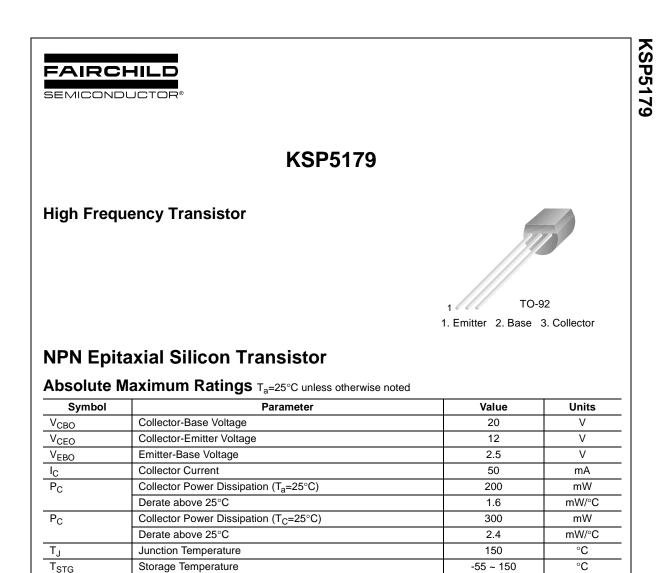


Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
KSP5179TA	onsemi
Series:	Product Status:
	Obsolete
Transistor Type:	Current - Collector (Ic) (Max):
NPN	50 mA
Voltage - Collector Emitter Breakdown (Max):	Vce Saturation (Max) @ lb, lc:
12 V	400mV @ 1mA, 10mA
Current - Collector Cutoff (Max):	DC Current Gain (hFE) (Min) @ lc, Vce:
20nA (ICBO)	25 @ 3mA, 1V
Power - Max:	Frequency - Transition:
200 mW	2GHz
Operating Temperature:	Mounting Type:
150°C (TJ)	Through Hole
Package / Case:	Supplier Device Package:
TO-226-3, TO-92-3 (TO-226AA) Formed Leads	TO-92-3
Base Product Number:	
KSP51	

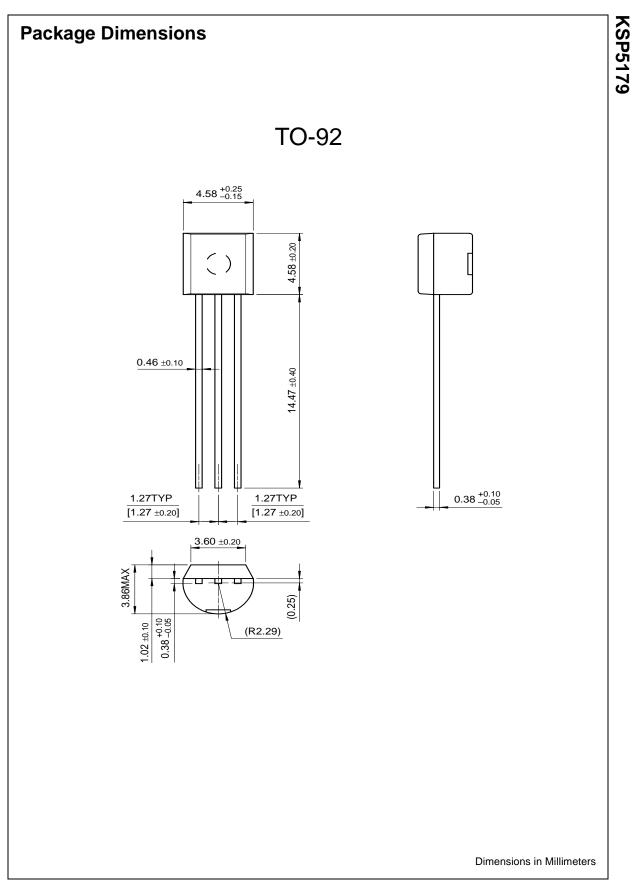
Environmental & Export classification

Moisture Sensitivity Level (MSL):	REACH Status:
1 (Unlimited)	REACH Unaffected
ECCN:	HTSUS:
EAR99	8541.21.0075



Electrical Characteristics T_a=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Max.	Units
V _{CEO} (sus)	Collector-Emitter Sustaining Voltage	I _C =3mA, I _B =0	12		V
BV _{CBO}	Collector-Base Breakdown Voltage	I _C =10μA, I _E =0	20		V
BV _{EBO}	Emitter-Base Breakdown Voltage	I _E =10μA, I _C =0	2.5		V
I _{CBO}	Collector Cut-off Current	V _{CB} =15V, I _E =0 V _{CB} =15V, I _E =0, Ta=150°C		0.02 1	μΑ μΑ
h _{FE}	DC Current Gain	V _{CB} =1V, I _C =3mA	25	250	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C =10mA, I _B =1mA		0.4	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C =10mA, I _B =1mA		1	V
f _T	Current Gain Bandwidth Product	V _{CE} =6V, I _C =5mA	900	2000	MHz
C _{ob}	Output Capacitance	V _{CB} =10V, I _E =0, f=0.1 to1 MHz		1	pF
h _{fe}	Small Signal Current Gain	V _{CE} =6V, I _C =2mA, f=1KHz	25	300	
C _{c · rbb'}	Collector Base Time Constant	V _{CE} =6V, I _E =2mA, f=31.9MHz	3	14	ps
NF	Noise Figure	V_{CE} =6V, I _C =1.5mA, f=200MHz R _S =50 Ω		4.5	dB



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ACEx™	FACT™	ImpliedDisconnect™	PACMAN™	SPM™
ActiveArray™	FACT Quiet series™	ISOPLANAR™	POP™	Stealth™
Bottomless™	FAST [®]	LittleFET™	Power247™	SuperSOT™-3
CoolFET™	FASTr™	MicroFET™	PowerTrench [®]	SuperSOT™-6
CROSSVOLT™	FRFET™	MicroPak™	QFET™	SuperSOT™-8
DOME™	GlobalOptoisolator™	MICROWIRE™	QS™	SyncFET™
EcoSPARK™	GTO™	MSX™	QT Optoelectronics [™]	TinyLogic™
E ² CMOS™	HiSeC™	MSXPro™	Quiet Series™	TruTranslation™
EnSigna™	I ² C™	OCX™	RapidConfigure™	UHC™
Across the board.	Around the world.™	OCXPro™	RapidConnect™	UltraFET [®]
The Power Franc	hise™	OPTOLOGIC [®]	SILENT SWITCHER [®]	VCX™
Programmable Ad	ctive Droop™	OPTOPLANAR™	SMART START™	

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Definition of Terms

Datasheet Identification	Product Status	Definition
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