imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

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!



Contact us

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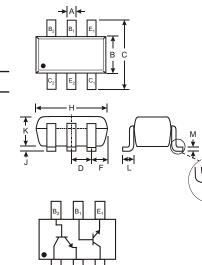
DUAL NPN SMALL SIGNAL SURFACE MOUNT TRANSISTOR

Features

- Epitaxial Planar Die Construction
- Complementary PNP Type Available (IMT4)
- Small Surface Mount Package
- Also Available in Lead Free Version

Mechanical Data

- Case: SOT-26, Molded Plastic
- Case material UL Flammability Rating Classification 94V-0
- Moisture sensitivity: Level 1 per J-STD-020A
- Terminals: Solderable per MIL-STD-202, Method 208
- Also Available in Lead Free Plating (Matte Tin Finish). Please see Ordering Information, Note 4, on Page 2
- Terminal Connections: See Diagram
- Marking (See Page 2): KX8
- Ordering & Date Code Information: See Page 2
- Weight: 0.016 grams (approx.)



	SOT-26									
Dim	Min	Max	Тур							
Α	0.35	0.50	0.38							
В	1.50	1.70	1.60							
С	2.70	3.00	2.80							
D		_	0.95							
F	_	_	0.55 3.00							
н	2.90	3.10								
J	0.013	0.10	0.05							
К	1.00	1.30	1.10							
L	0.35	0.55	0.40							
М	I 0.10 0.2		0.15							
α	0°	8°								
	All Dimensions in mm									

IMX8

Characteristic	Symbol	IMX8	Unit	
Collector-Base Voltage	V _{CBO}	120	V	
Collector-Emitter Voltage	V _{CEO}	120	V	
Emitter-Base Voltage	V _{EBO}	5.0	V	
Collector Current - Continuous	Ι _C	50	mA	
Power Dissipation (Note 1)	Pd	300	mW	
Thermal Resistance, Junction to Ambient (Note 1)	R _{0JA}	417	°C/W	
Operating and Storage and Temperature Range	Tj, T _{STG}	-55 to +150	°C	

Electrical Characteristics @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	Min	Typ Max Uni		Unit	Test Condition			
OFF CHARACTERISTICS (Note 2)									
Collector-Base Breakdown Voltage	V _{(BR)CBO}	120		_	V	$I_{C} = 50 \mu A$			
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	120	_		V	I _C = 1.0mA			
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	5.0	_		V	$I_E = 50 \mu A$			
Collector Cutoff Current	Ісво			0.5	μA	V _{CB} = 100V			
Emitter Cutoff Current	I _{EBO}			0.5	μA	V _{EB} = 4.0V			
ON CHARACTERISTICS (Note 2)									
DC Current Gain	h _{FE}	180		820		$I_{C} = 2.0 \text{mA}, V_{CE} = 6.0 \text{V}$			
Collector-Emitter Saturation Voltage	V _{CE(SAT)}			0.5	V	$I_{\rm C} = 10 {\rm mA}, I_{\rm B} = 1.0 {\rm mA}$			
SMALL SIGNAL CHARACTERISTICS									
Current Gain-Bandwidth Product	f _T		140		MHz	$V_{CE} = 12V$, $I_E = -2.0mA$, f = 100MHz			

Notes: 1. Device mounted on FR-5 PCB 1.0 x 0.75 x 0.062 inch pad layout as shown on Diodes Inc. suggested pad layout AP02001, which can be found on our website at http://www.diodes.com/datasheets/ap02001.pdf. 200mW per element must not be exceeded.
Short duration test pulse used to minimize self-heating effect.



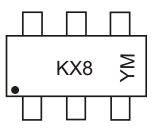
Ordering Information (Note 3)

Device	Packaging	Shipping		
IMX8-7	SOT-26	3000/Tape & Reel		

Notes: 3. For Packaging Details, go to our website at http://www.diodes.com/datasheets/ap02007.pdf.

 For Lead Free version (with Lead Free terminal finish) part number, please add "-F" suffix to part number above. Example: IMX8-7-F.

Marking Information



KX8 = Product Type Marking Code YM = Date Code Marking Y = Year ex: N = 2002 M = Month ex: 9 = September

Date Code Key

Year	200	2	2003	2004		2005	2005 2006		2007	200)8	2009
Code	N		Р		R	S		Т	U	V		W
Month	Jan	Feb	March	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Code	1	2	3	4	5	6	7	8	9	0	Ν	D

