/ Descriptions

TO-92LM NPN Silicon NPN transistor in a TO-92LM Plastic Package.

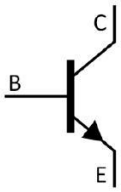
/ Features

KTA1274

Complementary to KTA1274.

/ Applications

General purpose amplifier application.





PIN1 Base PIN 2 Collector PIN 3 Emitter

/ h_{FE} Classifications & Marking

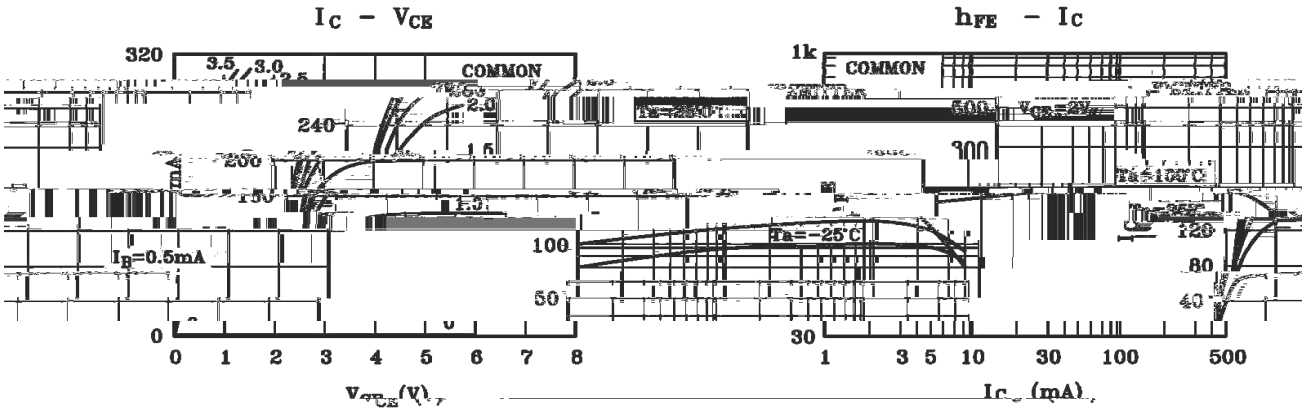
/ Absolute Maximum Ratings(Ta=25)

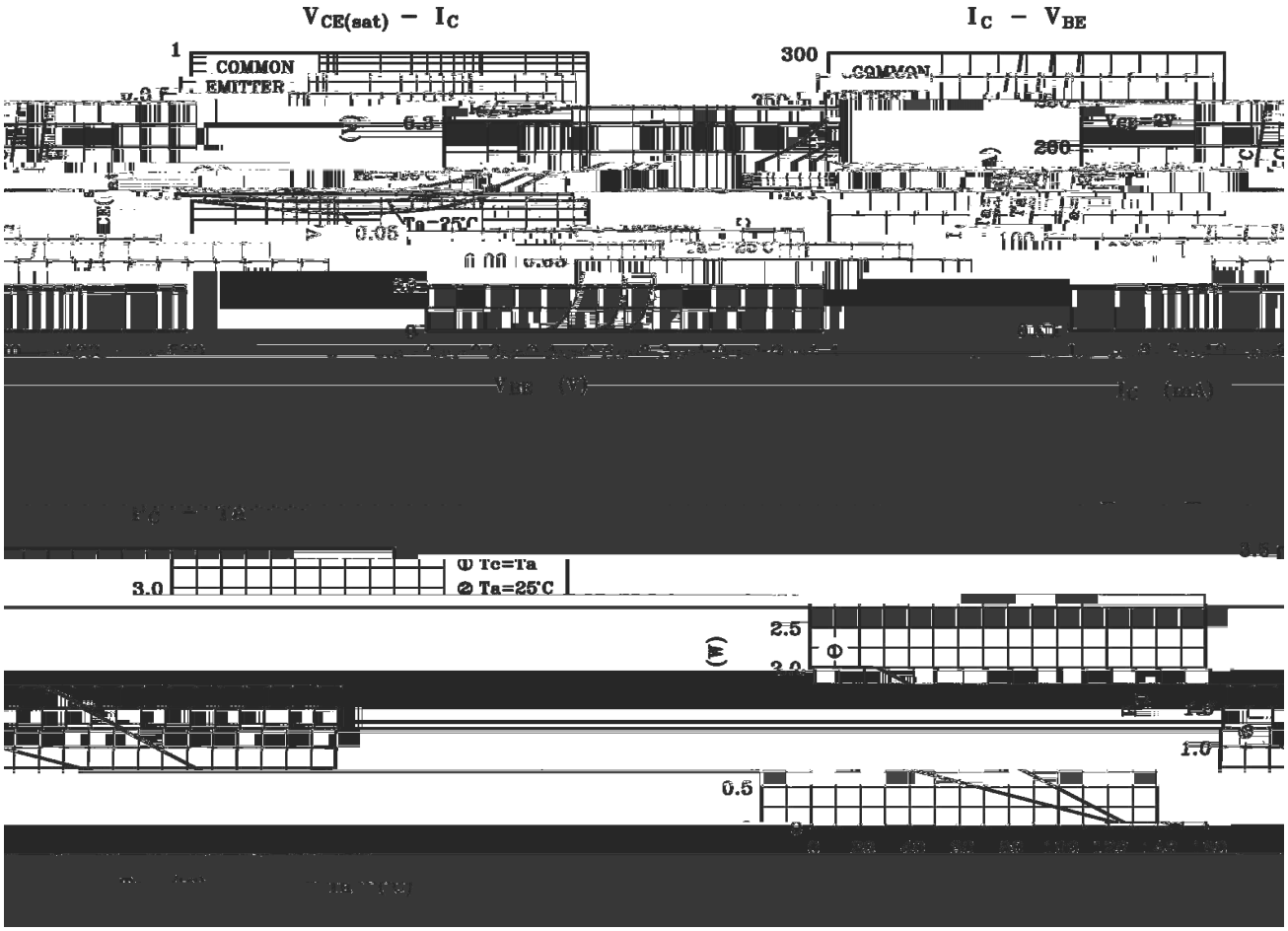
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	80	V
Collector to Emitter Voltage	V_{CEO}	80	V
Emitter to Base Voltage	V_{EBO}	5.0	V
Collector Current - Continuous	I_C	400	mA
Base Current - Continuous	I_E	-400	mA
Collector Power Dissipation	P_C	1.0	W
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

/ Electrical Characteristics(Ta=25)

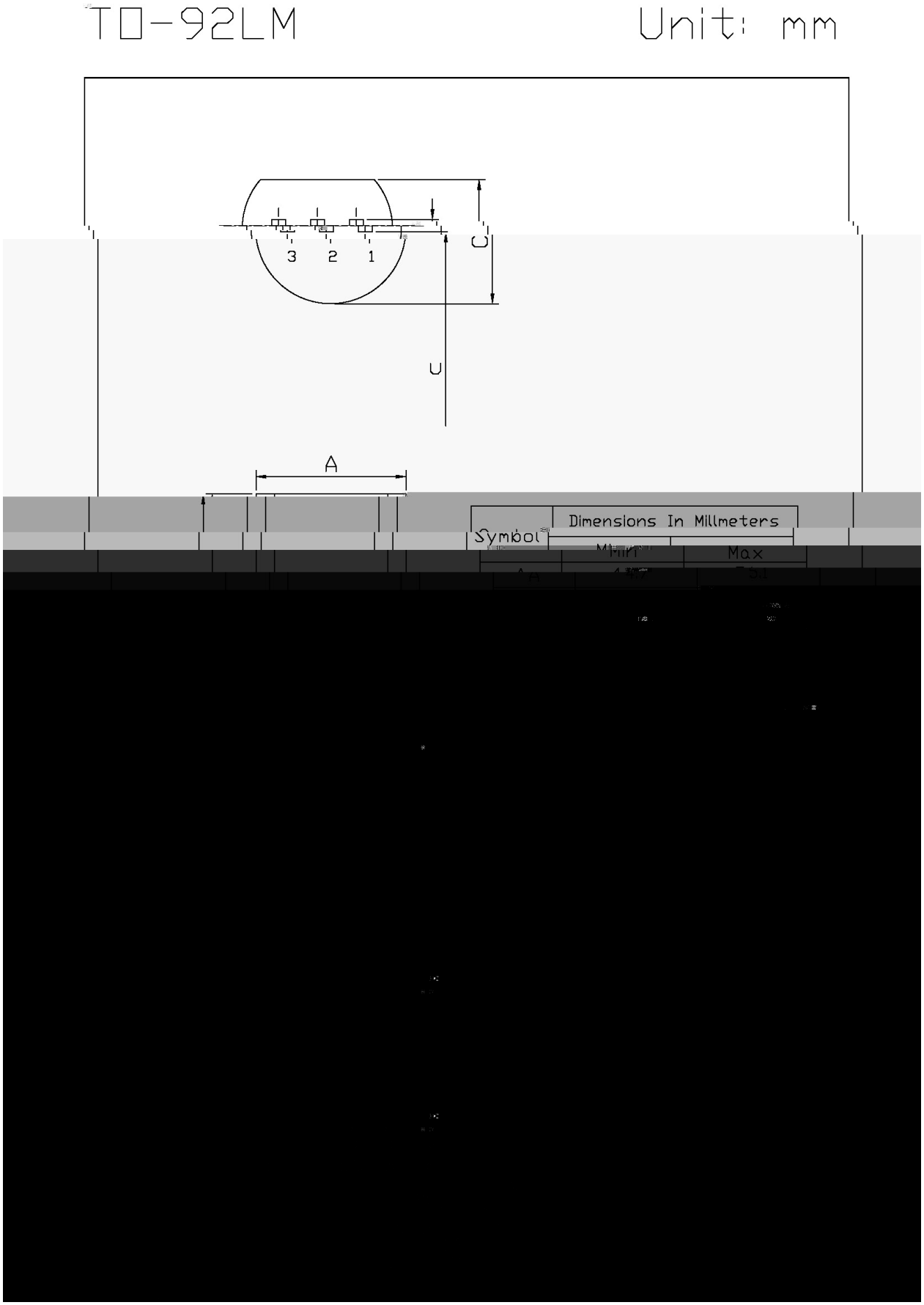
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cut-Off Current	I_{CBO}	V_{CB}=50V I_E=0			0.1	μA
Emitter Cut-Off Current	I_{EBO}	V_{EB}=5.0V I_C=0			0.1	μA
Collector to Emitter Breakdown Voltage	V_{CEO}	I_C=5mA I_B=0mA	80			V
DC Current Gain	$h_{FE(1)}$	V_{CE}=2.0V I_C=50mA	70		240	
	$h_{FE(2)}$	V_{CE}=2.0V I_C=200mA	40			
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	I_C=200mA I_B=20mA			0.4	V
Base to Emitter Voltage	V_{BE}	V_{CE}=2.0V I_C=5mA	0.55		0.8	V
Transition Frequency	f_T	V_{CE}=10V I_C=10mA		100		MHz
Collector output capacitance	C_{ob}	V_{CB}=10V f=1MHz		10		pF

/ Electrical Characteristic Curve

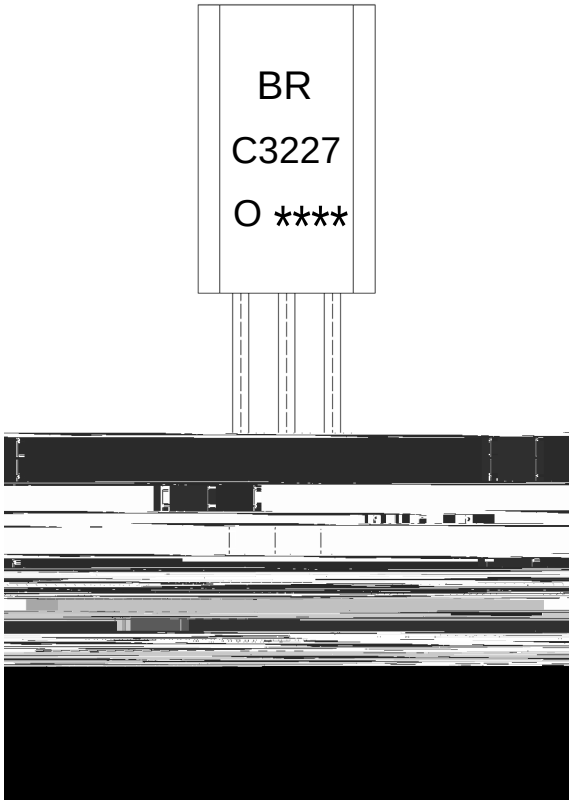




/ Package Dimensions



/ Marking Instructions



BR:

C3227

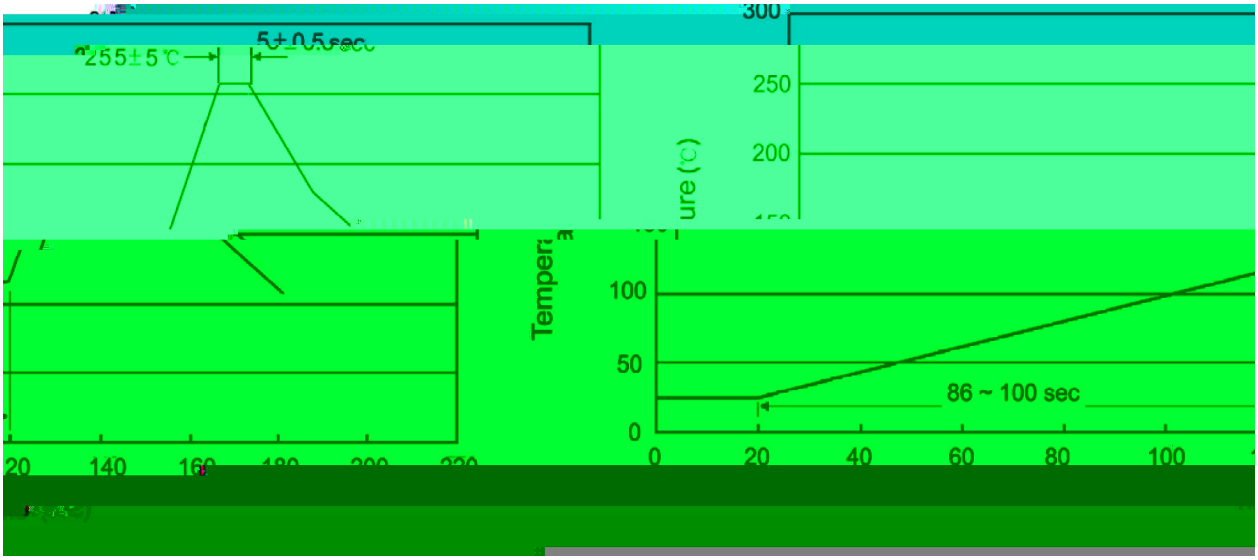
O: h_{FE}

****

Note:

BR:	Company Code.
C3227:	Product Type.
O:	h_{FE} Classifications Symbol
****:	Lot No. Code,code change with Lot No.

( ) / Temperature Profile for Dip Soldering(Pb-Free)



				Note:	
1	25	150	60 90sec;	1.Preheating:25~150	, Time:60~90sec.
2	255±5		5±0.5sec;	2.Peak Temp.:255±5	, Duration:5±0.5sec.
3		2 10	/sec.	3. Cooling Speed: 2~10	/sec.

/ Resistance to Soldering Heat Test Conditions

270±5	10±1 sec.	Temp.:270±5	Time:10±1 sec

/ Packaging SPEC.

/ BULK

Package Type	Units					Dimension		(unit mm3)
	Units/Bag /	Bags/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Bag	Inner Box	Outer Box
TO-92LM	1,000	8	8,000	5	40,000	135×190	237×172×102	560×245×195

/ AMMO

Package Type	Units					Dimension	(unit mm3)
	Units/tape /	Tape/Inner Box /	Rows/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Inner Box	Outer Box
TO-92LM	2,500	1	100	10	25,000	328×230×42	480×346×235 547×407×268

/ Notices