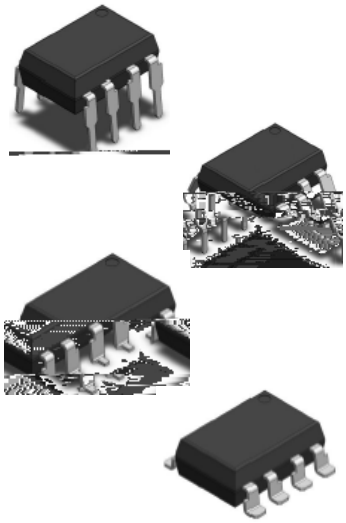
JOC827 Series

Rev.A.1.0

DESCRIPTION:

The JOC827 series provide two channel operation, and each combines an AlGaAs infrared emitting diode as the emitter which is optically coupled to a silicon planar phototransistor detector in a plastic DIP8 package with different lead forming options. With the robust coplanar double mold structure, JOC827 provides the most stable isolation feature. The products are widely used in computer peripheral interface and microprocessor system interface.



MAIN FEATURES

High isolation 5000 VRMS
DC input with transistor output
Operating temperature range -55°C to +110°C
REACH compliance
Halogen free (Optional)
CQC approved
VDE approved
UL approved

ABSOLUTE MAXIMUM RATINGS (Temperature=25°C)

Parameter		Symbol	Value	Unit
Input	Forward Current	I_F	60	mA
	Peak Forward Current	I_{FP}	1	A
	Reverse Voltage	V_R	6	V
	Power Dissipation	P_D	100	mW
Output	Collector-e			

Storage Temperature	T_{stg}	-55~+125	
Soldering Temperature	T_{sol}	260	

NOTE1 [illegible]

NOTE2 [illegible]

ELECTRICAL CHARACTERISTICS (Temperature=25°C)

Parameter		Symbol	Condition	Min.	Typ.	Max.	Unit
Input	Forward Voltage	V_F	I_F=10mA	-	1.2	1.3	V
			I_F=20mA	-	1.24	1.4	
	Reverse Current	I_R	V_R=6V	-	-	1	A
	Terminal Capacitance	C_t	V=0, f=1MHz	-	30	250	pF
Output	Collector-Emitter dark current	I_{CEO}	V_{CE}=20V, I_F=0	-	-	50	nA

C<</MCID 49 >>BDC 6q 141.96 501.36 112.92 31.1473.79 n BTb Tc 0 Twa -0.001k Tw 10 Td -0.001ow 0 0 1nBrtl

Characteristics Curves

FIG.1: Forward Current vs. Ambient Temperature

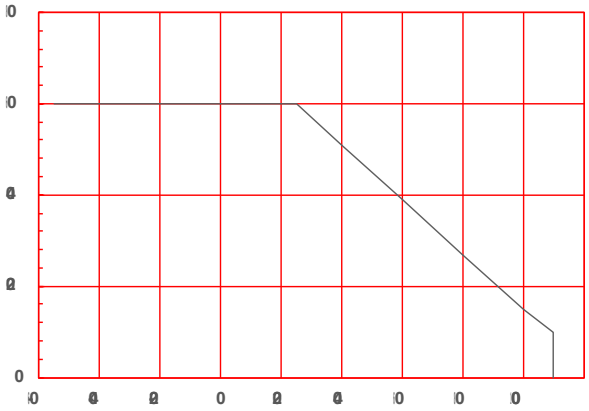


FIG.2: Collector Power Dissiption vs. Ambient Temperature

FIG.7: Normalized Current Transfer Ratio vs. Ambient Temperature

FIG.8:

Test Circuits

FIG.11: Test Circuits of Response Time

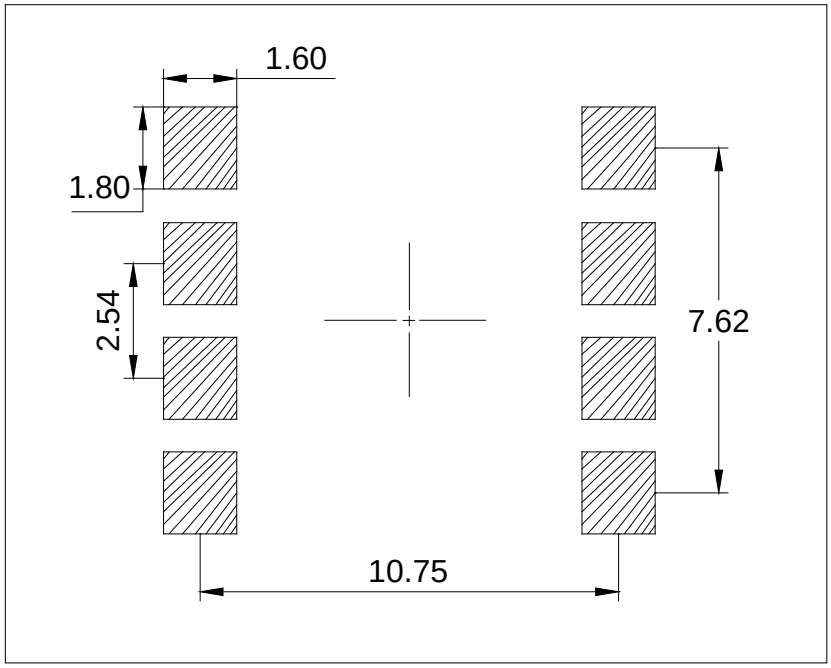
FIG.12: Curves of Response Time

FIG.13: Test Circuits of Frequency Response

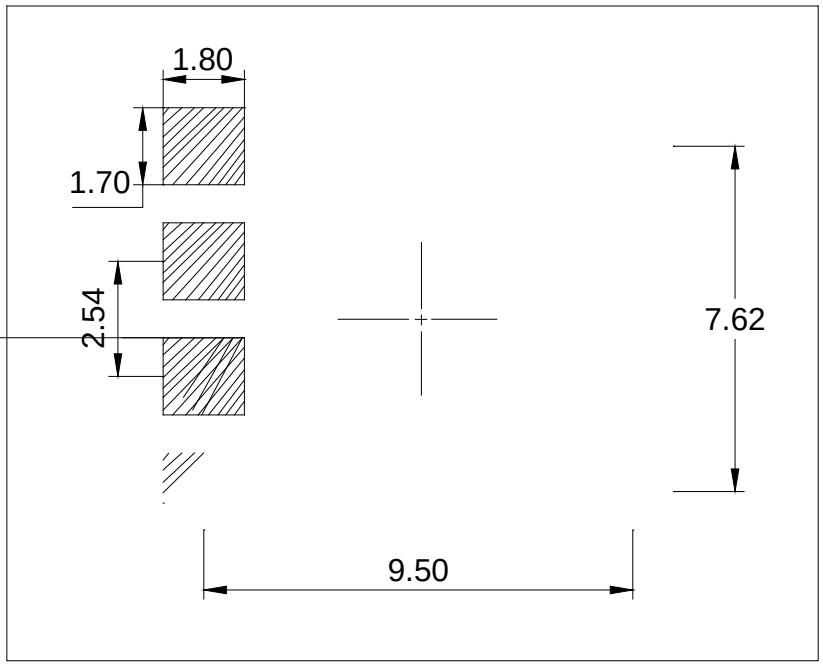
Packaging

RECOMMENDED SOLDER MASK (Dimensions in mm unless otherwise stated)

Option S

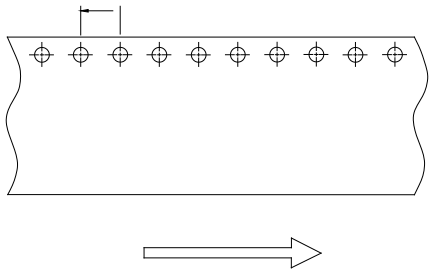


Option SL

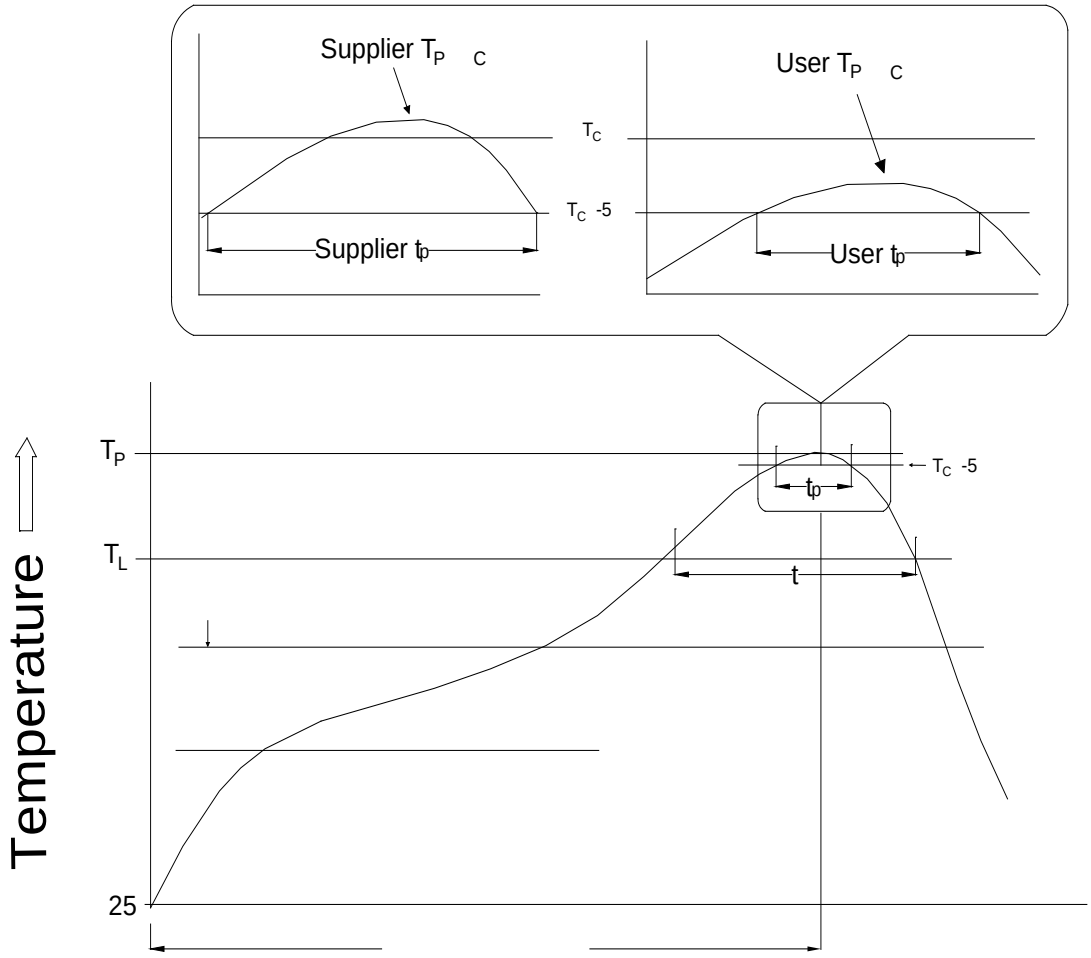


TUBE SPECIFICATIONS (Dimensions in mm u (m)p0Ts n idhu (m)eocsn p01 (ss)0(c)0 a)175(c)7

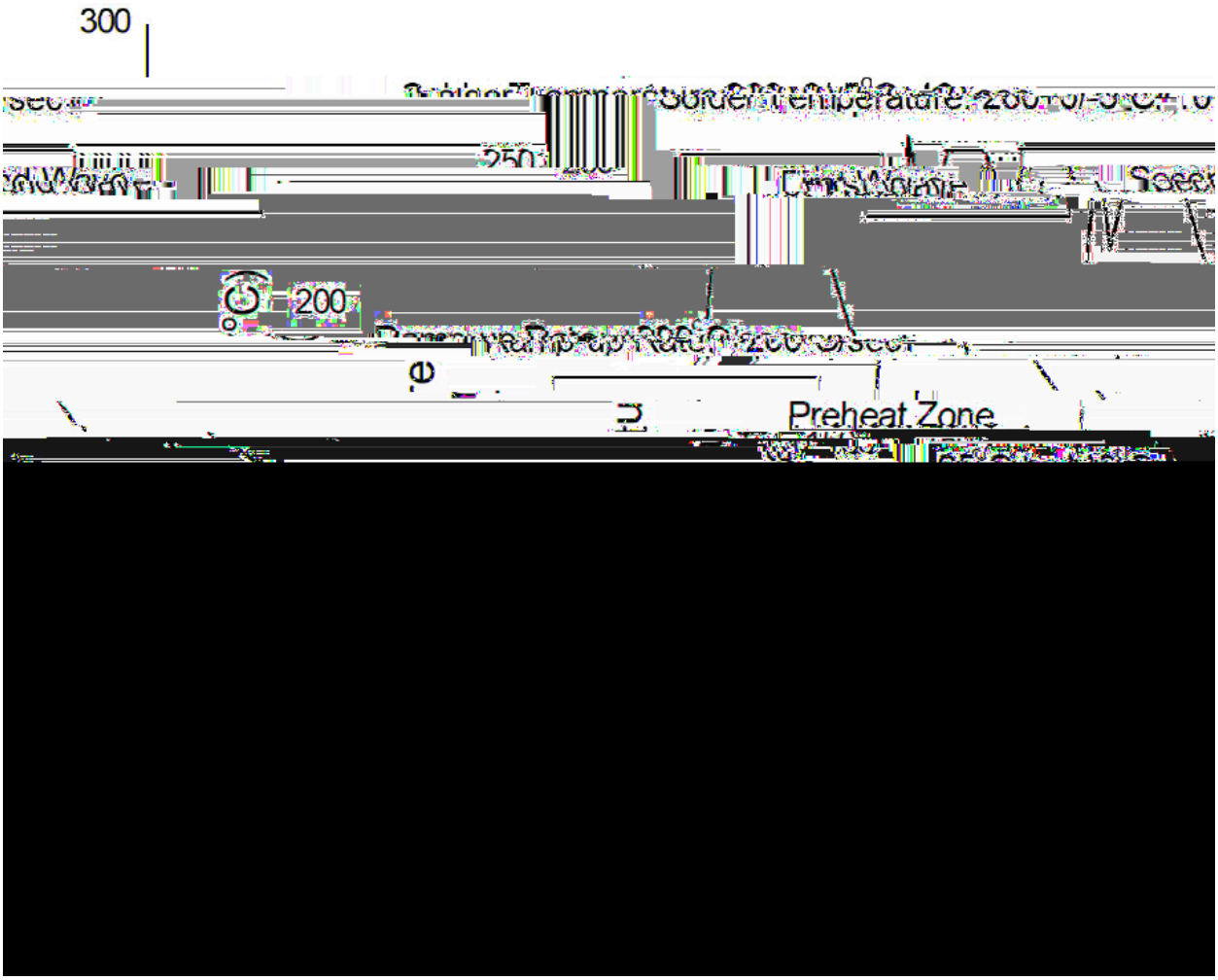
CARRIER TAPE SPECIFICATIONS (Dimensions in mm unless otherwise stated)



REFLOW INFORMATION



WAVE SOLDERING



HAND SOLDERING BY SOLDERING IRON	
Soldering Temperature	360 5
Soldering Time	3s max.

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