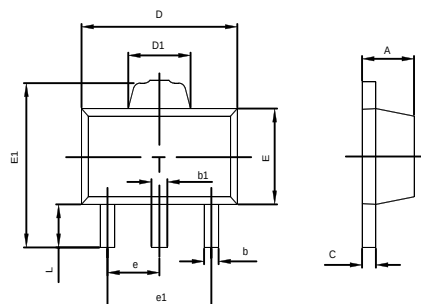


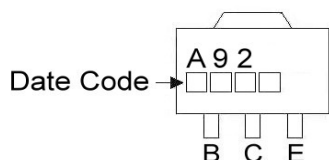
Description

The A92Q is designed for applications as a video output to drive color CRT, or as a dialer circuit in electronics telephone.

SOT-89



Marking :



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	1.400	1.600	0.055	0.063
b	0.320	0.520	0.013	0.020
b1	0.360	0.560	0.014	0.022
c	0.350	0.440	0.014	0.017
D	4.400	4.600	0.173	0.181
D1	1.400	1.800	0.055	0.071
E	2.300	2.600	0.091	0.102
E1	3.940	4.250	0.155	0.167
e	1.500TYP		0.060TYP	
e1	2.900	3.100	0.114	0.122
L	0.900	1.100	0.035	0.043

MAXIMUM RATINGS* ($T_{amb}=25^{\circ}\text{C}$, unless otherwise specified)

Symbol	Parameter	Value	Units
V_{CBO}	Collector-Base Voltage	-300	V
V_{CEO}	Collector-Emitter Voltage	-300	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current (DC)	-500	mA
P_D	Total Power Dissipation	1	W
T_J, T_{stg}	Junction and Storage Temperature	-55~+150	$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS $T_{amb}=25^{\circ}\text{C}$ unless otherwise specified

Parameter	Symbol	Min	Typ.	Max	Unit	Test Conditions
Collector-Base Breakdown Voltage	BV_{CBO}	-300	-	-	V	$I_C=-100\mu\text{A}, I_E=0$
Collector-Emitter Breakdown Voltage	BV_{CEO}	-300	-	-	V	$I_C=-1\text{mA}, I_B=0$
Emitter-Base Breakdown Voltage	BV_{EBO}	-5	-	-	V	$I_E=-100\mu\text{A}, I_C=0$
Collector-Base Cutoff Current	I_{CBO}	-	-	-250	nA	$V_{CB}=-200\text{V}, I_E=0$
Emitter-Base Cutoff Current	I_{EBO}	-	-	-100	nA	$V_{EB}=-3\text{V}, I_C=0$
Collector Saturation Voltage	$*V_{CE(sat)}$	-	-	-500	mV	$I_C=-20\text{mA}, I_B=-2\text{mA}$
Base Saturation Voltage	$*V_{BE(sat)}$	-	-	-900	mV	$I_C=-20\text{mA}, I_B=-2\text{mA}$
DC Current Gain	$*h_{FE1}$	25	-	-		$V_{CE}=-10\text{V}, I_C=-1\text{mA}$
	$*h_{FE2}$	40	-	-		$V_{CE}=-10\text{V}, I_C=-10\text{mA}$
	$*h_{FE3}$	25	-	-		$V_{CE}=-10\text{V}, I_C=-30\text{mA}$
Gain-Bandwidth Product	fT	50	-	-	MHz	$V_{CE}=-20\text{V}, I_C=-10\text{mA}, f=100\text{MHz}$
Output Capacitance	C_{ob}	-	-	6	pF	$V_{CB}=-20\text{V}, I_E=0$

*Pulse Test: Pulse width $\leq 380\mu\text{s}$, Duty Cycle $\leq 2\%$

Characteristics Curve

