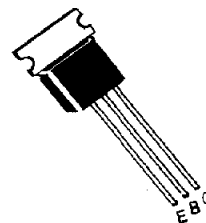


2N6719
NPN Silicon Planar Transistor
TO237 Plastic Package



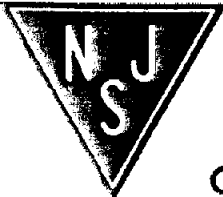
Designed for Application as a Video Output to Drive Color CRT

ABSOLUTE MAXIMUM RATINGS(Ta=25°C unless specified otherwise)

DESCRIPTION	SYMBOL	VALUE	UNIT
Collector -Base Voltage	V_{CBO}	300	V
Collector -Emitter Voltage	V_{CEO}	300	V
Emitter Base Voltage	V_{EBO}	7.0	V
Collector Current Continuous	I_C	0.5	A
Power Dissipation @ Ta=25°C	P_D	1.0	W
Power Dissipation @ Tc=25°C	P_D	2.0	W
Operating and Storage Junction Temperature Range	T_j, T_{stg}	-65 to +150	°C
THERMAL RESISTANCE			
Junction to ambient	$R_{th(j-a)}$	125	°C/W
Junction to case	$R_{th(j-c)}$	62.5	°C/W

ELECTRICAL CHARACTERISTICS (Ta=25°C unless specified otherwise)

DESCRIPTION	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Collector Emitter Voltage	V_{CEO}	$I_C=1mA, I_B=0$	300			V
Collector -Base Voltage	V_{CBO}	$I_C=100\mu A, I_E=0$	300			V
Emitter Base Voltage	V_{EBO}	$I_E=1mA, I_C=0$	7			V
Collector Cut off Current	I_{CBO}	$V_{CB}=200V, I_E=0$			100	nA
Emitter Cut off Current	I_{EBO}	$V_{EB}=6V, I_C=0$			100	nA
DC Current Gain	h_{FE}	$I_C=1mA, V_{CE}=10V$	25			
		$I_C=10mA, V_{CE}=10V$	40			
		$I_C=30mA, V_{CE}=10V$	40		200	
Collector Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=30mA, I_B=3mA$			0.75	V
Base Emitter (Sat) Voltage	$V_{BE(sat)}$	$I_C=20mA, I_B=2mA$			1.0	V
Base Emitter (on) Voltage	$V_{BE(on)}$	$I_C=30mA, V_{CE}=10V$			0.85	V
DYNAMICS CHARACTERISTICS						
Current Gain Bandwidth Product	f_T	$V_{CE}=10V, I_C=15mA$	30		300	MHz
Collector Base Capacitance	C_{cb}	$V_{CB}=20V, I_C=0, f=1MHz$			3.5	pF
Small Signal Current Gain	$ h_{fe} $	$I_C=15mA, V_{CE}=100V$	2.5			



NJ Semi-Conductors reserves the right to change test conditions, parameter limits and package dimensions without notice. Information furnished by NJ Semi-Conductors is believed to be both accurate and reliable at the time of going to press. However NJ Semi-Conductors assumes no responsibility for any errors or omissions discovered in its use. NJ Semi-Conductors encourages customers to verify that datasheet are current before placing orders.

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