

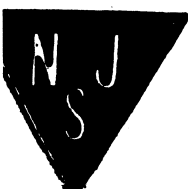
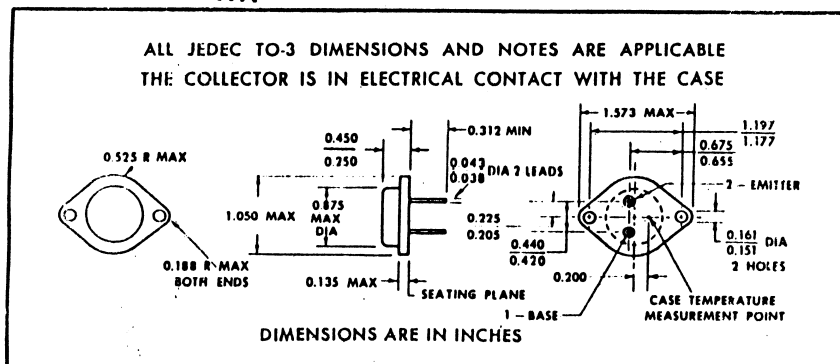
ABSOLUTE MAXIMUM RATINGS

V_{CBO}	Collector-base voltage ($I_E = 0$)	80V
V_{CEV}	Collector-emitter voltage ($V_{BE} = -1.5$ V)	70V
V_{CER}	Collector-emitter voltage ($R_{BE} \leq 100 \Omega$)	—
$V_{CE(sus)}$	Collector-emitter sustaining voltage ($I_{CE} = 0$)	60V
V_{EBO}	Emitter-base voltage ($I_C = 0$)	7V
I_C	Collector current	15A
I_B	Base current	7A
P_{tot}	Total power dissipation at $T_{case} \leq 25^\circ C$	115W
T_{stg}	Storage temperature	-65 to 200 °C
T_j	Junction temperature	200 °C

ELECTRICAL CHARACTERISTICS ($T_{case} = 25^\circ C$ unless otherwise specified)

Parameter	Test conditions	Min.	Typ.	Max.	Unit
I_{CEV}	Collector cutoff current ($V_{BE} = -1.5$ V)	$V_{CE} = 80V$ $V_{CE} = 80V$		5	mA
					$T_{case} = 150^\circ C$
I_{CEO}	Collector cutoff current ($I_B = 0$)	$V_{CE} = 30V$		0.7	mA
I_{EBO}	Emitter cutoff current ($I_C = 0$)	$V_{EB} = 7$ V		1	mA
$V_{CEV(sus)}$ *	Collector-emitter sustaining voltage ($V_{BE} = -1.5V$)	$I_C = 100mA$	70		V
$V_{CEO(sus)}$ *	Collector-emitter sustaining voltage ($I_B = 0$)	$I_C = 200mA$	60		V
$V_{CE(sat)}$ *	Collector-emitter saturation voltage	$I_C = 4$ A $I_B = 400mA$		1	V
				3	V
V_{BE} *	Base-emitter voltage	$I_C = 4$ A $V_{CE} = 4$ V		1.5	V

MECHANICAL DATA



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 data sheets are current before placing orders.