

The BSV 91 is an NPN planar epitaxial transistor designed specifically for high - speed saturated switching applications.

(25°C free air temperature unless otherwise noted)

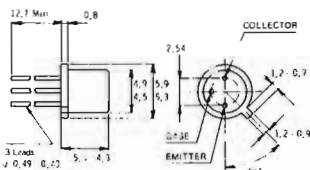
ABSOLUTE MAXIMUM RATINGS (1)
(T_A = 25°C unless otherwise noted)

Collector Emitter (4)	V_{CEO}	15 V
Collector to Emitter	V_{CES}	40 V
Emitter to Base	V_{EBQ}	5 V

Storage Temperature	T _{STG} -55°C to 200°C
Junction Temperature	T _J 200°C
Lead Temperature (Soldering 10 sec.)	T _I 260°C

Dissipation at 25°C Case Temperature	P_D	1 W
Dissipation at 25°C Ambient Temperature	P_D	0.36 W

Similar to Jecdec T11-18



^a All differences are in mg.

- (1) These ratings at limiting values above which the possibility of any individual semiconductor device may be impaired.
- (2) These are steady state limits. The factory should be consulted on applications involving pulsed or low duty cycle operations.
- (3) These ratings are for a maximum ambient temperature of 200°C and junction-to-case thermal resistance of 175°C/W (derating factor of 5.7 mW/°C); junction-to-ambient thermal resistance of 486°C/W (derating factor of 2.1 mW. °C).
- (4) These ratings refer to a high-current point where collector-to-emitter voltage is lowest. For example, at $V_{CE} = 100$ V, $I_{CS} = 1.5$ A, $\theta_{JA} = 1$.
- (5) Measured under pulse conditions: pulse length = 300 μ sec; duty cycle = 1%.