

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified

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4/98

	Symbol	Value	Unit
Rep <mark>etitive Peak Reve</mark> rse Voltage	V _{RRM}	100	V
Forward Continuous Current at T _{amb} = 25 °C	l _F	150 ²⁾	mA
Repetitive Peak Forward Current at $t_p < 1 \text{ s}$, $\delta < 0.5$, $T_{amb} = 25 \text{ °C}$	I _{FRM}	350 ²⁾	mA
Surge Forward Current at t _p < 10 ms, T _{amb} = 25 °C	I _{FSM}	750 ²⁾	mA
Power Dissipation ¹⁾ at T _{amb} = 65 °C	P _{tot}	150 ²⁾	mW
Junction Temperature	Tj	125	°C
Ambient Operating Temperature Range	T _{amb}	-55 to +125	°C
Stor <mark>age Tem</mark> perature Range	T _S	-55 to +150	°C

GENERAL

EMICONDUCTOR®

BAT46W

ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified

V _{(BR)R}	100	-	-	V
V _F V _F V _F	- - -	- - -	0.25 0.45 1	V V V
I _R IR IR IR IR IR IR IR IR	- - - - - -	- - - - - -	0.5 5 0.8 7.5 2 15 5 20	μΑ μΑ μΑ μΑ μΑ μΑ μΑ μΑ
C _{tot} C _{tot}		10 6		pF pF
R _{thJA}	-	-	0.3 2)	K/mW
-	VF VF VF IR IR IR IR IR IR IR IR IR IR IR IR IR	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

