

Reverse voltage (repetitive peak)	Vw7(bol72 T6)-0.	Value	0.4(u)23691	TP
Reverse voltage (DC)	V _R	650		V
Continuous forward current (T _c = 135°C)	I _F	10		A
Surge non-repetitive forward current	PW=10ms sinusoidal, T _j =25°C	82		A
	PW=10ms sinusoidal, T _j =150°C	69		A
	PW=10μs square, T _j =25°C	300		A
Repetitive peak forward current	I _{FRM}	45		A
i ² t value	1 PW 10ms, T _j =25°C	33		A ² s
	1 PW 10ms, T _j =150°C	23		A ² s
Total power dissipation	P _D	71		W
Junction temperature	T _j	175		°C
Range of storage temperature	T _{stg}	455 to 2175		°C

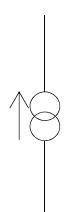
*1 T_c=100°C, T_j=150°C, Duty cycle=10% *2 T_c=25°C

Thermal characteristics

Parameter	Symbol	Conditions	Values			Unit
			Min.	Typ.	Max.	
Thermal resistance	$R_{th(j-c)}$	-	-	1.5	2.1	°C/W

Typical Transient Thermal Characteristics

Symbol	Value	Unit	Symbol	Value	Unit
R_{th1}	1.55E-02	K/W	C_{th1}	2.63E-04	Ws/K
R_{th2}	1.46E-01		C_{th2}	1.00E-03	
R_{th3}	1.32E+00		C_{th3}	2.13E-03	



Electrical characteristic curves

Symbol	Typical Value	Unit
a_0	9.66E-01	V
a_1	-1.10E-03	V/°C
b_0	3.52E-02	T
b_1	7.46E-05	T/°C
b_2	7.68E-07	T/°C ²