

BAT165WS SCHOTTKY BARRIER DIODE

Features

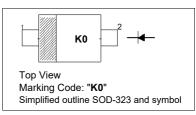
• Medium current schottky rectifier diode

Applications

• For low-loss, fast-recovery, meter protection, bias isolation and clamping applications

PINNING

PIN	DESCRIPTION
1	Cathode
2Anode	



Absolute Maximum Ratings (T_a = 25 oC)

Parameter	Symbol	Value	Unit
Reverse Voltage	V_{R}	40	V
Average forward current	IFAV	500	mA
Forward Current	l _F	750	mA
Surge Forward Current (t ≤ 10 ms)	Iгям	2.5	А
Total Power Dissipation	Ptot	600	mW
Junction Temperature	TJ	150	°C
Storage Temperature Range	T _{stg}	- 65 to + 150	°C

Characteristics at T_a = 25 ∘C

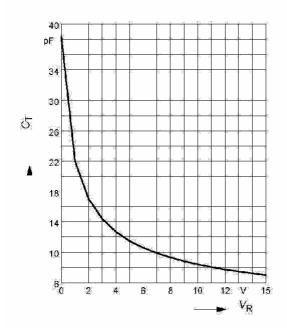
Parameter	Symbol	Max.	Unit
Forward Voltage at I _F = 10 mA	V _F	0.4	V
at I _F = 250 mA		0.7	
Reverse Current at V _R = 30 V	I _R	50	μΑ
at V _R = 30 V, T _a = 65 ∘C		900	
Diode Capacitance at V _R = 10 V, f = 1 MHz	C _T	12	pF



Typical Characteristics

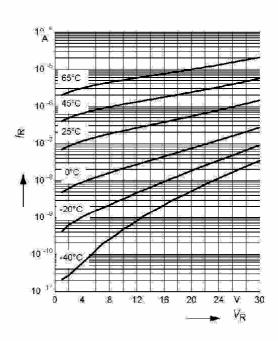
Diode capacitance $C_T = f(V_R)$

f = 1MHz



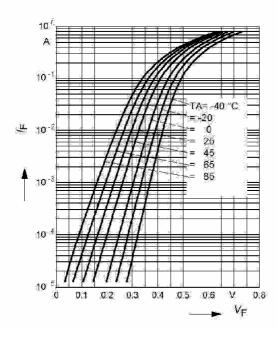
Reverse current $I_R = f(V_R)$

 $T_A = Parameter$

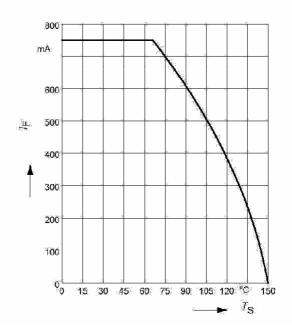


Forward current $f_F = f(V_F)$

 T_A = Parameter



Forward current $I_F = f(T_S)$





PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-323

