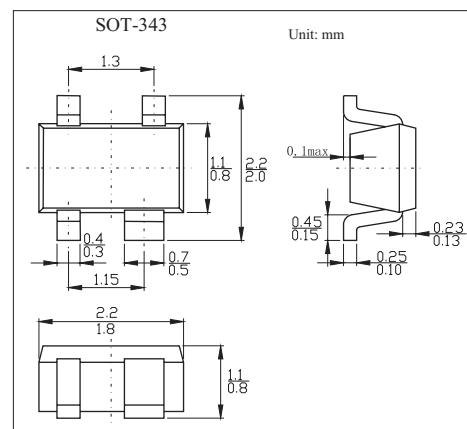


**BAS40-07W****■ Features**

- General-purpose diode for high-speed switching
- Circuit protection
- Voltage clamping
- High-level detecting and mixing

**■ Absolute Maximum Ratings Ta = 25°C**

Parameter	Symbol	Value	Unit
Diode reverse voltage	V _R	40	V
Forward current	I _F	120	mA
Surge forward current, t ≤ 10 ms	I _{FRM}	200	mA
Total power dissipation, Ts ≤ 81°C	P _{tot}	250	A
Junction temperature	T _j	150	°C
Operating temperature range	T _{op}	-55 to +150	°C
Storage temperature	T _{stg}	-55 to +150	°C
Junction - ambient ¹⁾	R _{thJA}	≤ 345	K/W
Junction - soldering point	R _{thJS}	≤ 275	K/W
Note			

1. Package mounted on epoxy pcb 40mm × 40mm × 1.5mm / 6cm² Cu

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Breakdown voltage	V _(BR)	I _(BR) = 10 μ A	40			mV
Reverse current	I _R	V _R = 30 V			1	μ A
		V _R = 40 V			10	
Forward voltage	V _F	I _F = 1 mA	250	310	380	mV
		I _F = 10 mA	350	450	500	
		I _F = 40 mA	600	720	1000	
Diode capacitance	C _T	f = 1 MHz; V _R = 0		4	5	pF
Charge carrier life time	T	I _F = 25 mA			100	ps
Differential forward resistance	R _F	I _F = 10 mA, f = 10 KHz		10		Ω

■ Marking

Marking	47s
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