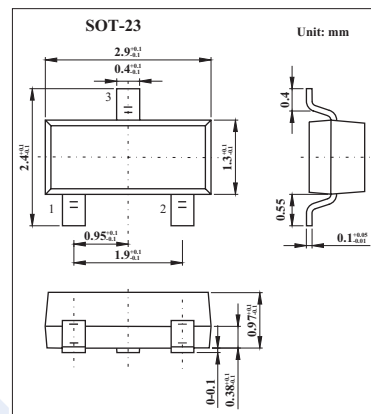
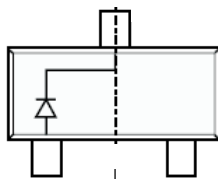


0.75 Surface Mount Schottky Barrier Rectifier

KAT750(BAT750)

■ Features

- Very Low Forward Voltage Drop
- High Conductance
- For Use in DC-DC Converter, PCMCIA, and Mobile Telecommunications Applications

■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Peak repetitive reverse voltage	V_{RRM}	40	V
Working peak reverse voltage	V_{RWM}		
DC blocking voltage	V_R		
RMS reverse voltage	$V_{R(RMS)}$	28	V
Average rectified output current	I_O	0.75	A
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	5.5	A
Power dissipation	P_D	350	mW
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	286	$^\circ\text{C/W}$
Operating and storage temperature range	T_J, T_{stg}	-40 to +125	$^\circ\text{C}$

■ Electrical Characteristics $T_a = 25^\circ\text{C}$

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse Breakdown Voltage	$V_{(BR)R}$	$I_R = 300 \mu\text{A}$	40	45		V
Forward voltage	V_F	$I_F = 50\text{mA}$		225	280	mV
		$I_F = 100\text{mA}$		235	310	
		$I_F = 250\text{mA}$		290	350	
		$I_F = 500\text{mA}$		340	420	
		$I_F = 750\text{mA}$		390	490	
		$I_F = 1000\text{mA}$		420	540	
		$I_F = 1500\text{mA}$		475	650	
Leakage current	I_R	$V_R = 15\text{V}$		50	100	μA
Junction Capacitance	C_J	$V_R = 0, f = 1.0\text{MHz}$		175		pF
		$V_R = 25\text{V}, f = 1.0\text{MHz}$		25		

■ Marking

Marking	K77 or K79
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