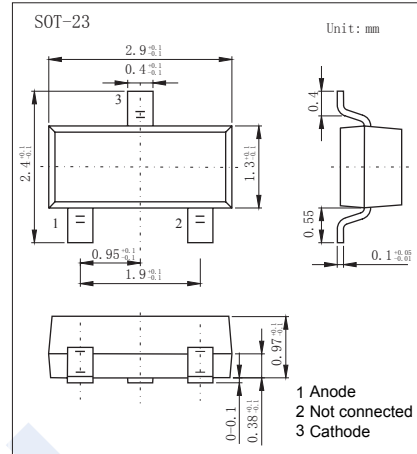
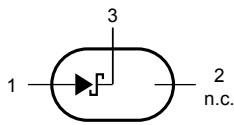


Schottky Diodes

BAT720 (KAT720)

■ Features

- Ultra high switching speed
- Low forward voltage
- Guard ring protected

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

Parameter	Symbol	Rating	Unit
Reverse Voltage	V_{RM}	40	V
Forward Current	I_F	500	mA
Peak Forward Surge Current $t_p < 10$ ms	I_{FM}	2	A
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	500	$^\circ\text{C}/\text{W}$
Junction Temperature	T_J	125	$^\circ\text{C}$
Storage Temperature range	T_{stg}	-65 to 150	

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	V_R	$I_R = 100 \mu\text{A}$	40			V
Forward voltage	V_F	$I_F = 500\text{mA}$			550	mV
Reverse voltage leakage current	I_R	$V_R = 35$ V			100	μA
		$V_R = 35$ V, $T_J = 100^\circ\text{C}$			10	mA
Junction capacitance	C_d	$V_R = 0$ V, $f = 1$ MHz	60		90	pF

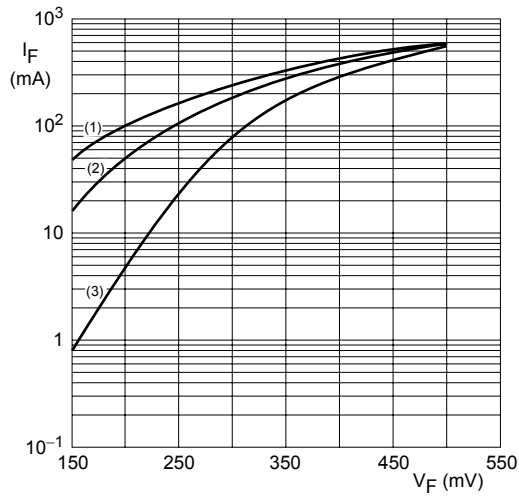
■ Marking

Marking	L6*
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Schottky Diodes

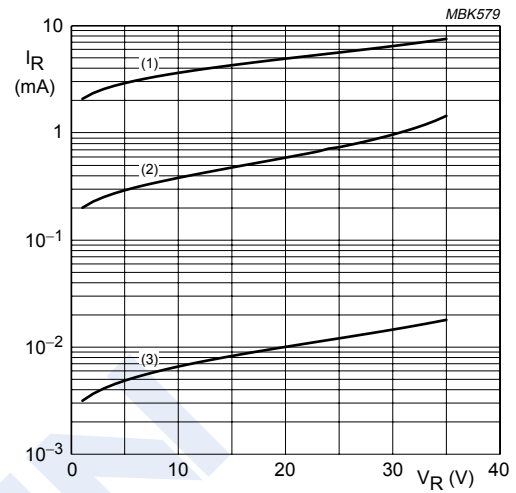
BAT720 (KAT720)

■ Typical Characteristics



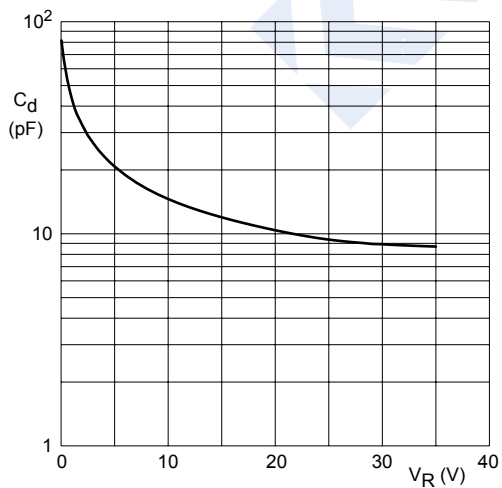
- (1) $T_{amb} = 125^\circ\text{C}$.
- (2) $T_{amb} = 85^\circ\text{C}$.
- (3) $T_{amb} = 25^\circ\text{C}$.

Fig.2 Forward current as a function of forward voltage; typical values.



- (1) $T_{amb} = 125^\circ\text{C}$.
- (2) $T_{amb} = 85^\circ\text{C}$.
- (3) $T_{amb} = 25^\circ\text{C}$.

Fig.3 Reverse current as a function of reverse voltage; typical values.



$f = 1\text{ MHz}$; $T_j = 25^\circ\text{C}$.

Fig.4 Diode capacitance as a function of reverse voltage; typical values.