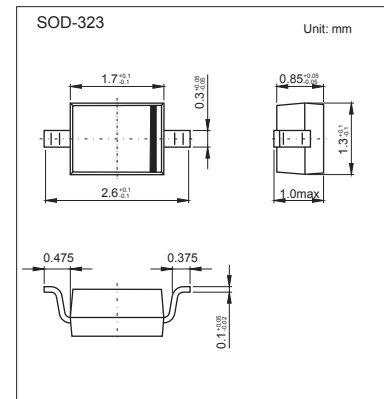


Schottky Diodes 1KK2301F

■ Features

- High current rectifier Schottky diode
- Low voltage, low inductance
- For power supply
- For detection and step-up-conversion



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

Parameter	Symbol	Rating	Unit
Non-Repetitive Peak reverse voltage	V_{RM}	10	V
Forward current	I_F	3	A
Forward surge Current $t_p=10\text{ms}$	I_{FSM}	5	A
Total power dissipation $T_s \leq 28^\circ\text{C}$	P_{tot}	1350	mW
Junction temperature	T_J	150	$^\circ\text{C}$
Storage temperature	T_{STG}	-65 to +150	$^\circ\text{C}$

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

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Forward voltage (Note 1)	V_F	$I_F = 10\text{mA}$ $I_F = 100\text{mA}$ $I_F = 500\text{mA}$ $I_F = 1000\text{mA}$			300 380 500 600	mV
Leakage current	I_R	$V_R = 5\text{V}$ $V_R = 8\text{V}$			1.5 2.5	μA
Junction Capacitance	C_J	$V_R = 5\text{V}, f = 1.0\text{MHz}$			30	pF

Note1 : Pulsed test: $t_p = 300\ \mu\text{s}$; $D = 0.01$

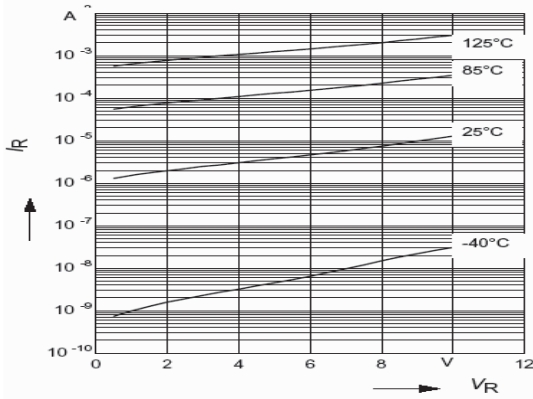
■ Marking

Marking	SL
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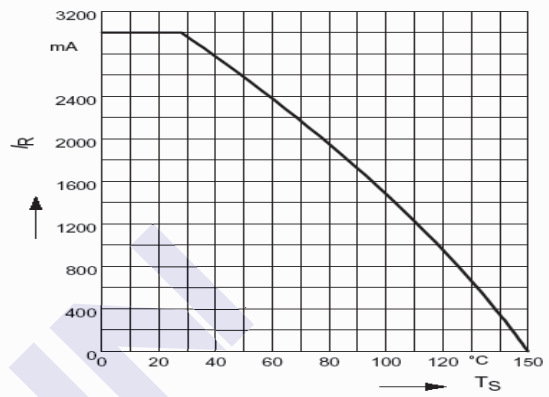
1KK2301F

■ Typical Characteristics

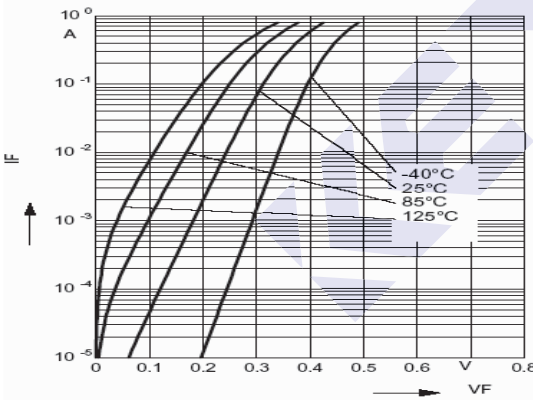
Reverse current $I_R = f(V_R)$
 $T_A = \text{Parameter}$



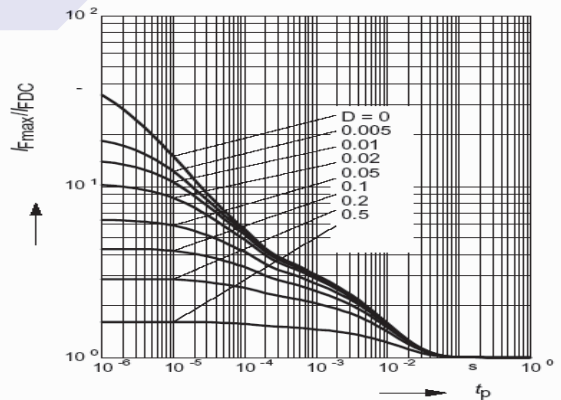
Forward current $I_F = f(T_S)$



Forward current $I_F = f(V_F)$
 $T_A = \text{Parameter}$



Permissible Pulse Load $I_{Fmax}/I_{FDC} = f(t_p)$



Permissible Puls Load $R_{thJS} = f(t_p)$

