

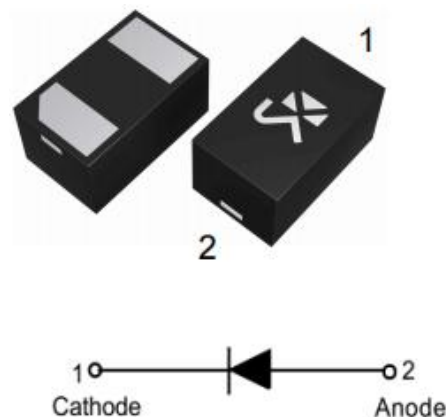
Schottky Barrier Diode

Features

- We declare that the material of product compliance with RoHS requirements

Marking

Type number	Marking code
MSK4010D	KX



Maximum Ratings($T_A=25^{\circ}\text{C}$)

Parameter	Symbol	Limits	Unit
Reverse Voltage	V_R	42	V
Forward Current	I_F	1	A
Peak Forward Surge Current (8.3ms)	I_{FSM}	3	A

Thermal Characteristics

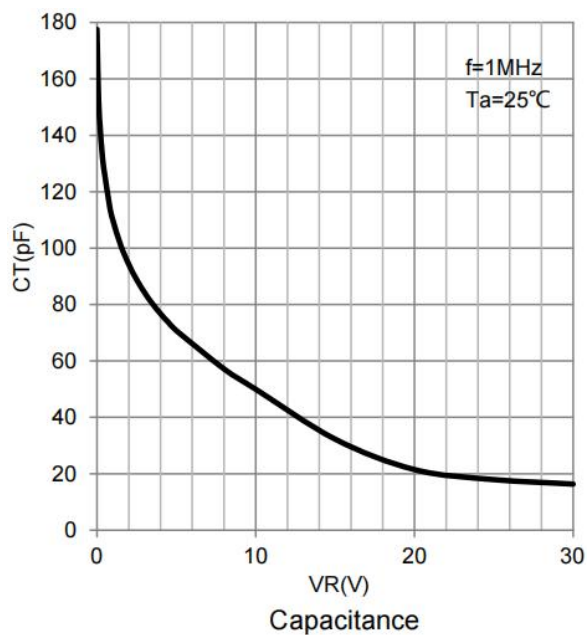
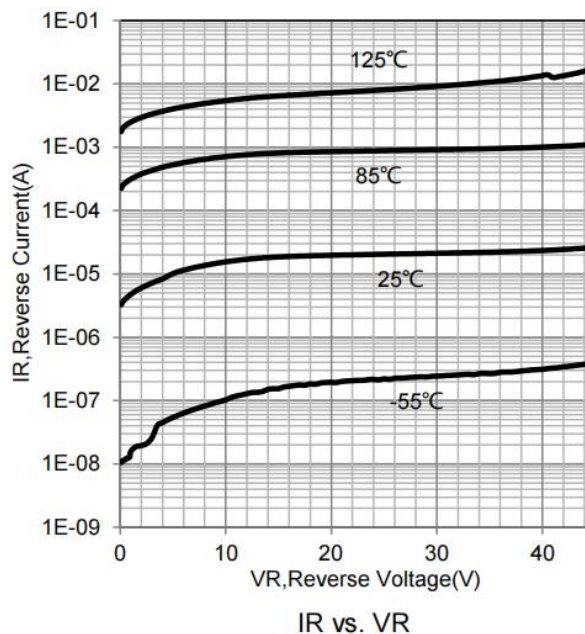
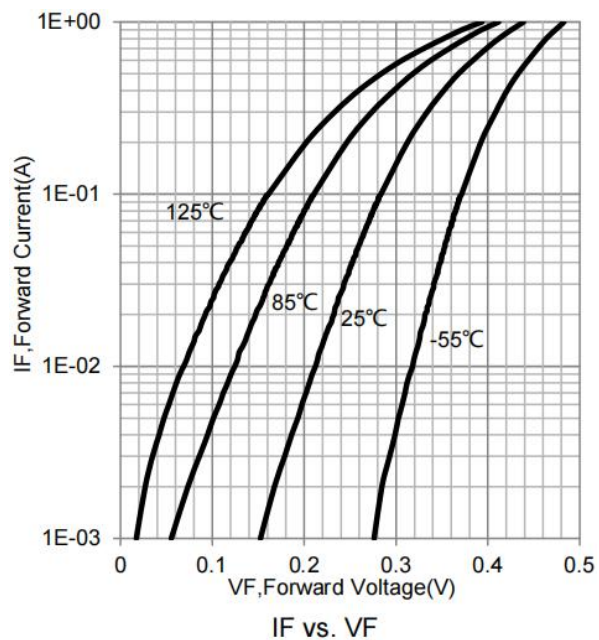
Parameter	Symbol	Limits	Unit
Total Device Dissipation, FR-5 Board ⁽¹⁾	P_D	250	mW
		4	mW/ $^{\circ}\text{C}$
Thermal Resistance, Junction-to-Ambient	$R_{\theta JA}$	400	$^{\circ}\text{C}/\text{W}$
Junction Temperature	T_J	125	$^{\circ}\text{C}$
Storage Temperature	T_{STG}	-55~+150	$^{\circ}\text{C}$

Note: 1.FR-4 Minimum pad

Electrical Characteristics ($T_A=25^{\circ}\text{C}$)

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Reverse Breakdown Voltage	V_{BR}	$I_R = 100\mu\text{A}$	42	50		V
Reverse Voltage Leakage Current	I_R	$V_R = 10\text{V}$		10		μA
		$V_R = 40\text{V}$		30	100	μA
Forward Voltage	V_F	$I_F = 100\text{mA}$		0.31		V
		$I_F = 500\text{mA}$		0.39	0.44	V
		$I_F = 1\text{A}$		0.47	0.52	V

Typical Characteristics



Package Information

DFN1006

Dimensions in mm

