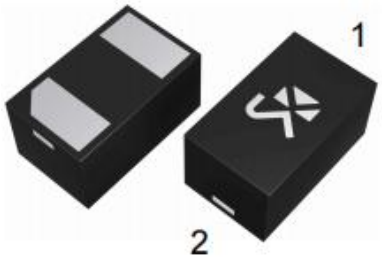
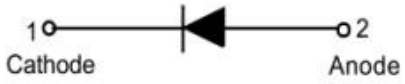
MSK4010D

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℃)

Parameter	Symbol	Limits	Unit
Reverse Voltage	V_R	40	V
Forward Current	I_F	1	A
Peak Forward Surge Current (8.3ms)	I_{FSM}	3	A

Thermal Characteristics

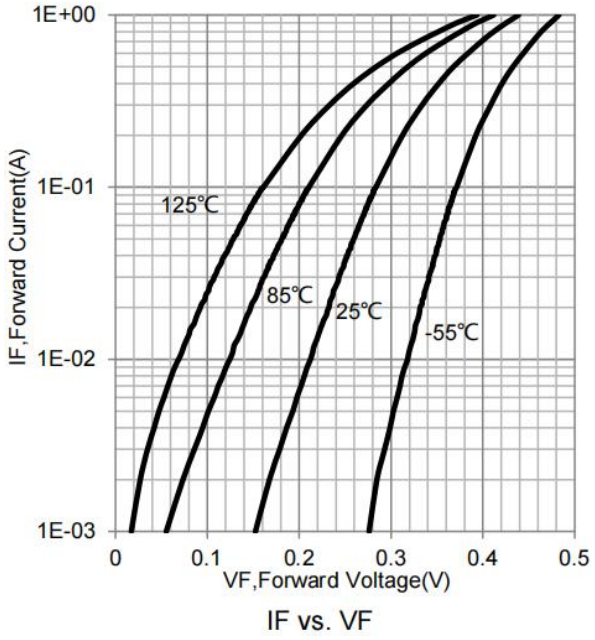
Parameter		Symbol	Limits	Unit
Total Device Dissipation,FR-5 Board(1)	T_A=25℃	P_D	250	mW
	Derate above 25℃		4	mW/℃
Thermal Resistance,Junction-to-Ambient		$R_{\theta JA}$	400	℃/W
Junction Temperature		T_J	125	℃
Storage Temperature		T_{STG}	-55~+150	℃

Note: 1.FR-4 Minimum pad

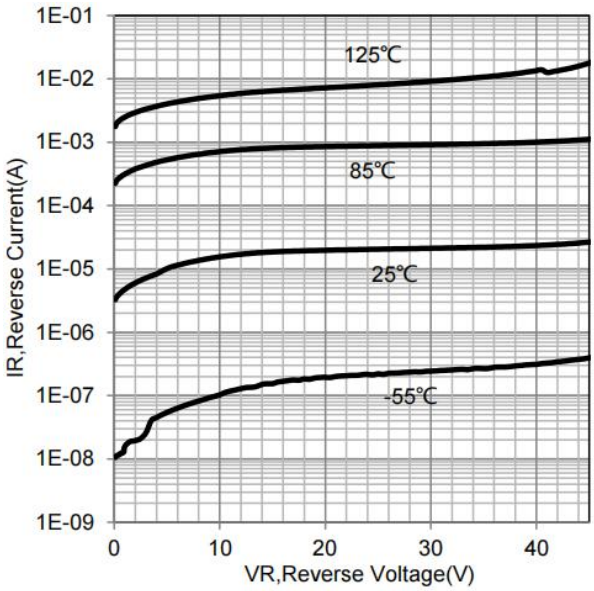
Electrical Characteristics (T_A=25℃)

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

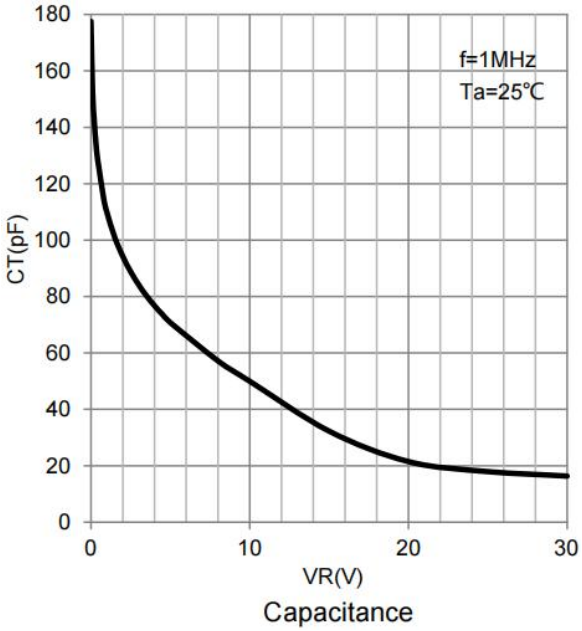
Typical Characteristics



IF vs. VF



IR vs. VR

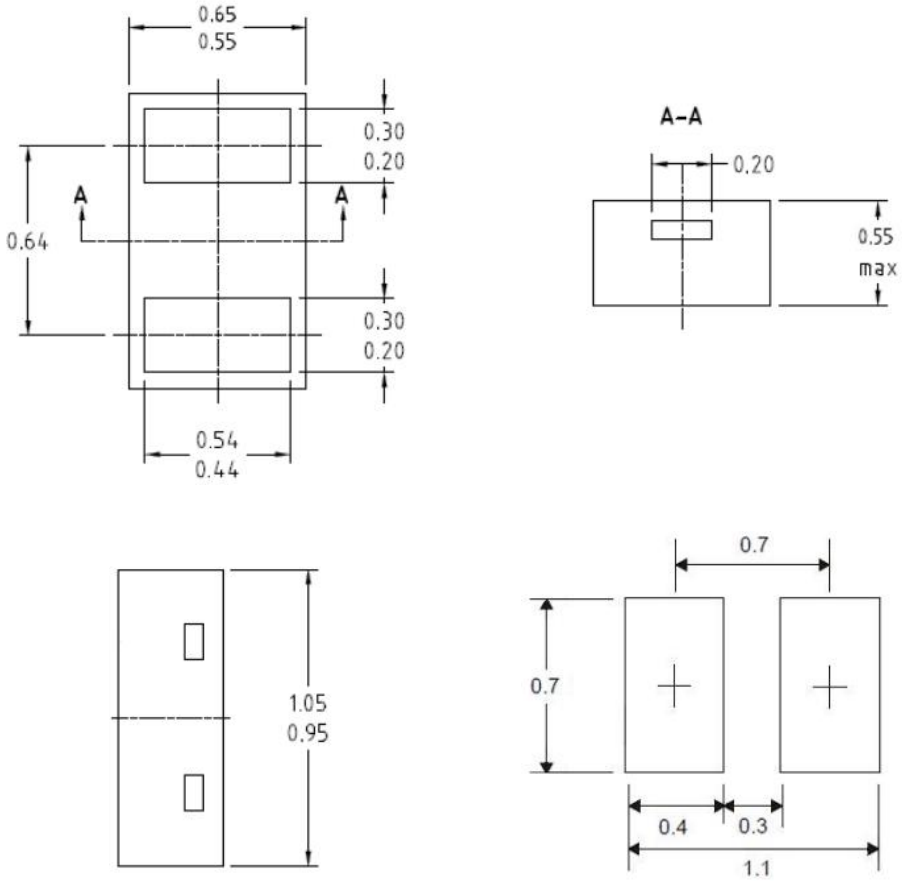


Capacitance

Package Information

DFN1006

Dimensions in mm



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