

# SOD-123 Plastic-Encapsulate Diode

## RF071MM2S

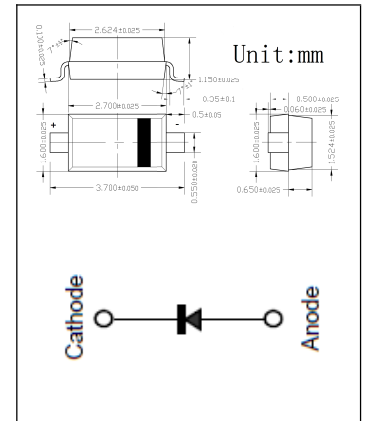
### Super Fast Recovery Diode

#### Features

- Ultra low forward voltage
- Low switching loss

#### Application

- General rectification



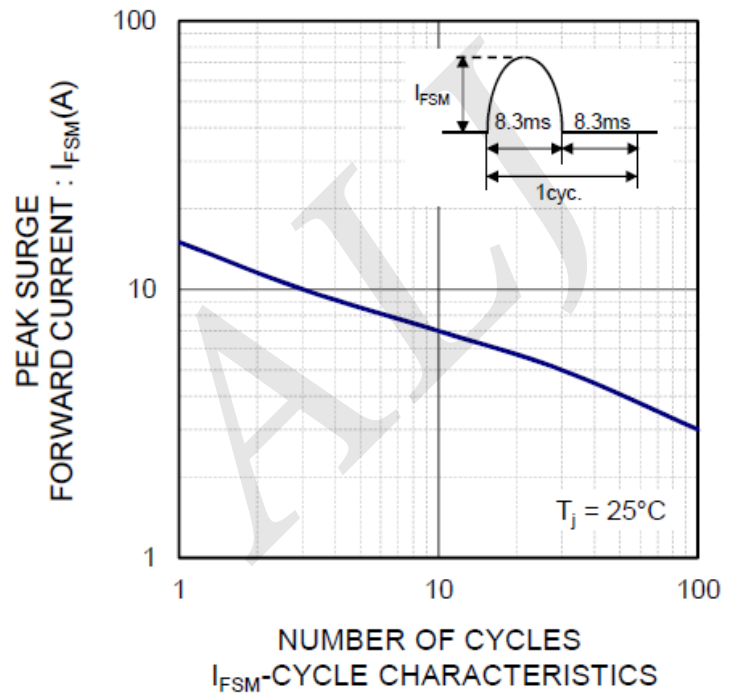
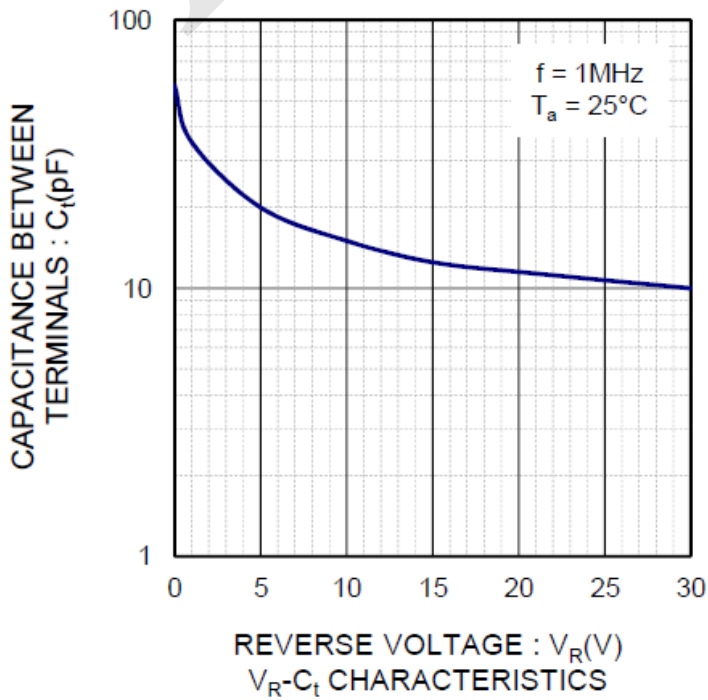
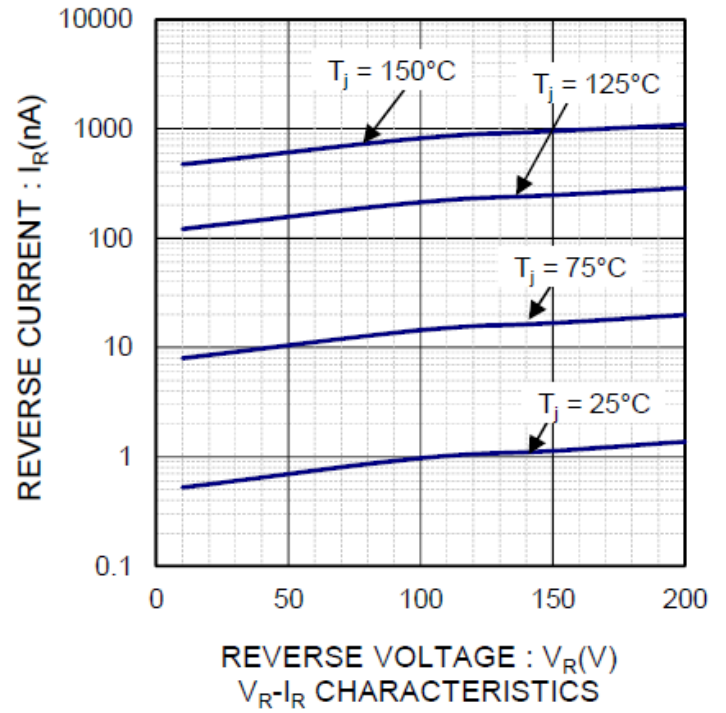
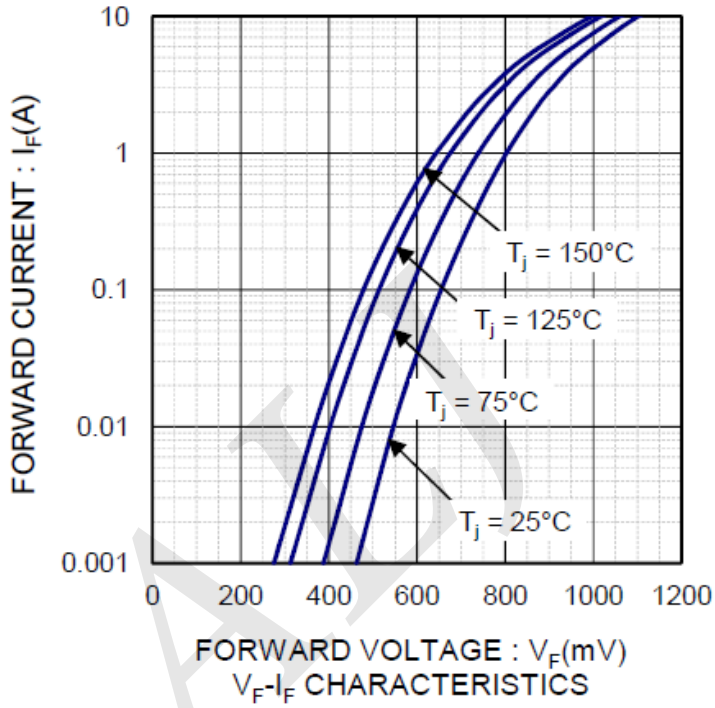
#### Maximum Ratings ( $T_a=25^{\circ}\text{C}$ unless otherwise specified)

Symbol	Parameter	Value	Unit
$V_{DS}$	Drain-Source voltage	200	V
$V_R$	Reverse voltage	200	V
$I_F$	Direct forward current	1	A
$I_o$	Average rectified forward current	0.7	A
$I_{FSM}$	Non-repetitive forward surge current	15	A
$T_J$	Junction Temperature(MAX)	150	$^{\circ}\text{C}$
$T_{STG}$	Storage Temperature	-55 to +150	$^{\circ}\text{C}$

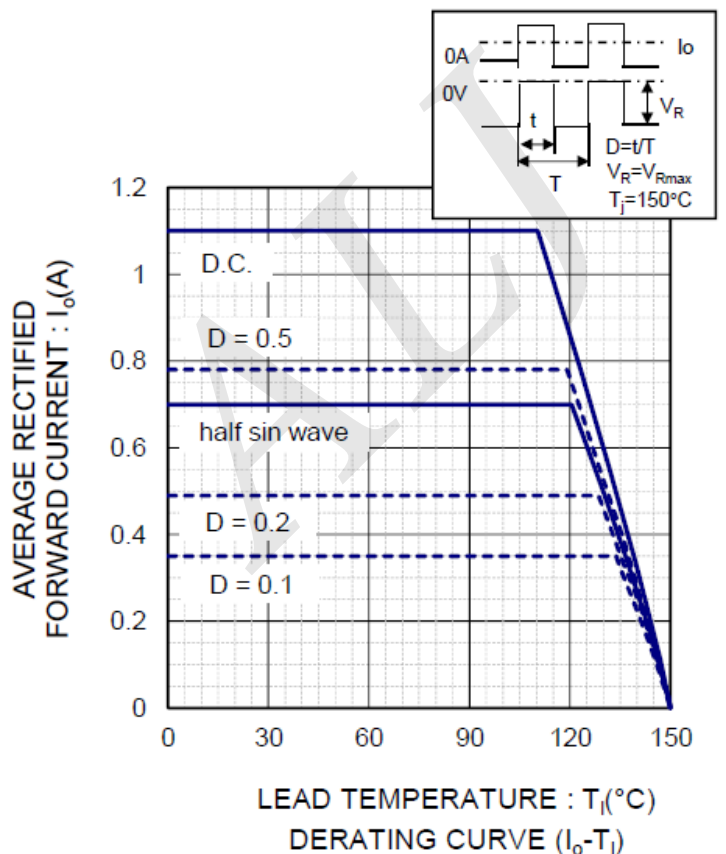
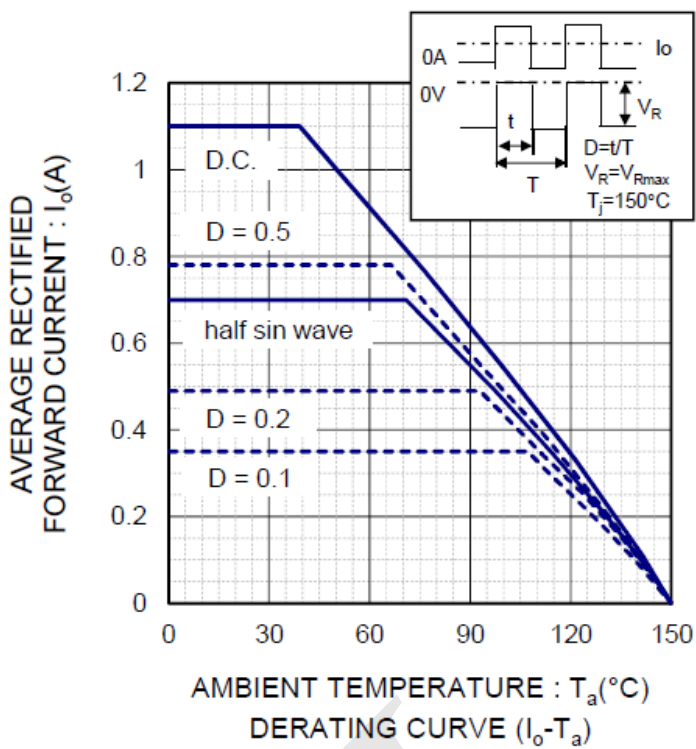
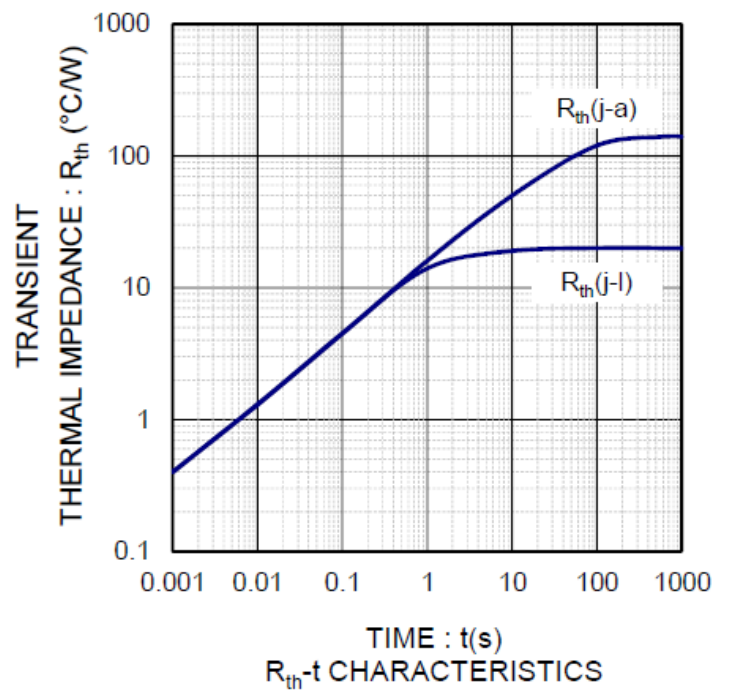
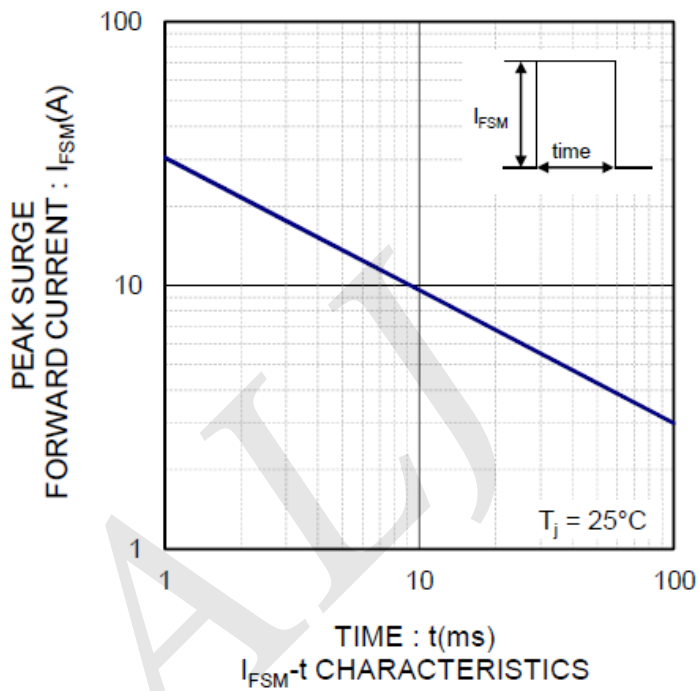
#### Electrical Characteristics ( $T_J=25^{\circ}\text{C}$ unless otherwise specified)

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
$V_F$	Forward voltage	$I_F=0.7\text{A}$	0.7	0.78	0.85	V
$I_R$	Reverse current	$V_R=200\text{V}$		0.01	10	$\mu\text{A}$
$t_{rr}$	Reverse recovery time	$I_F=0.5\text{A}, I_R=1\text{A}, I_{rr}=0.25 \times I_R$		12	25	nS
$R_{th(j-l)}$	Thermal resistance	Junction to lead			20	$^{\circ}\text{C}/\text{W}$

# Typical Characteristics



# Typical Characteristics (Cont.)



## Typical Characteristics (Cont.)

