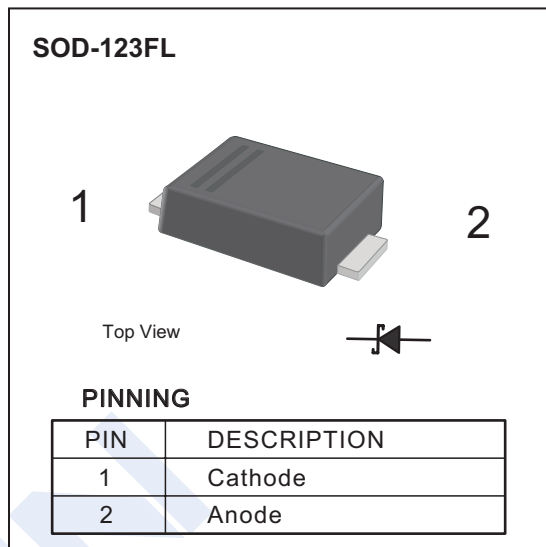


## Schottky Diodes

### MBR120FL ~ MBR1200FL

#### ■ Features

- Low power loss,high efficiency
- High forward surge current capability



#### ■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	MBR 120FL	MBR 130FL	MBR 140FL	MBR 150FL	MBR 160FL	MBR 170FL	MBR 180FL	MBR 190FL	MBR 1100FL	MBR 1200FL	Unit		
Repetitive Peak Reverse Voltage	VRRM	20	30	40	50	60	70	80	90	100	200	V		
Maximum RMS Voltage	VRMS	14	21	28	35	42	49	56	63	70	140			
Maximum DC Blocking Voltage	VDC	20	30	40	50	60	70	80	90	100	200			
Forward Voltage @ If=1A	VF	0.55			0.7		0.85			0.95				
Averaged Forward Current.Ta=75°C	IFAV	1										A		
Peak Forward Surge Current Ta=25°C	IFSM	25												
Maximum DC Reverse Current Ta=25°C Ta=100°C	IR	1										mA		
		10												
Typical Junction Capacitance (Note.1)	Cj	110				80								pF
Junction Temperature	Tj	-65 to 125					-65 to 150						°C	
Storage Temperature	Tstg	-65 to 150												

Note.1:Measured at 1MHz and applied reverse voltage of 4.0V D.C.

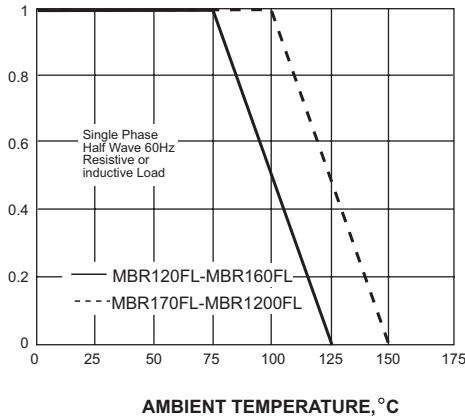
## Schottky Diodes

### MBR120FL ~ MBR1200FL

■ Typical Characteristics

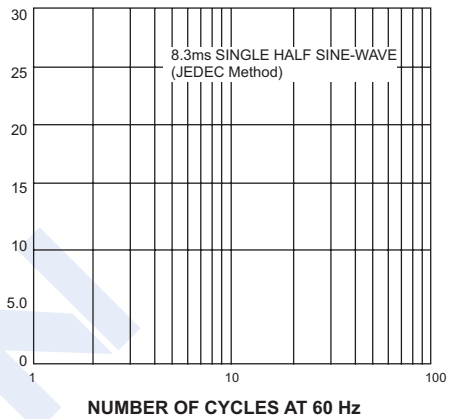
AVERAGE FORWARD RECTIFIED CURRENT, AMPERES

FIG. 1- FORWARD CURRENT DERATING CURVE



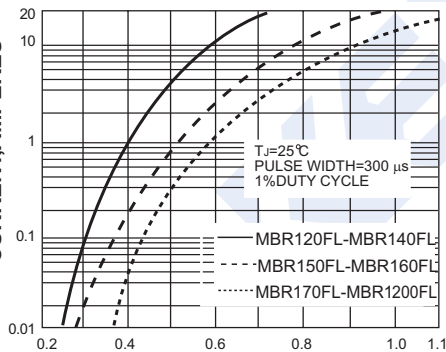
PEAK FORWARD SURGE CURRENT, AMPERES

FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



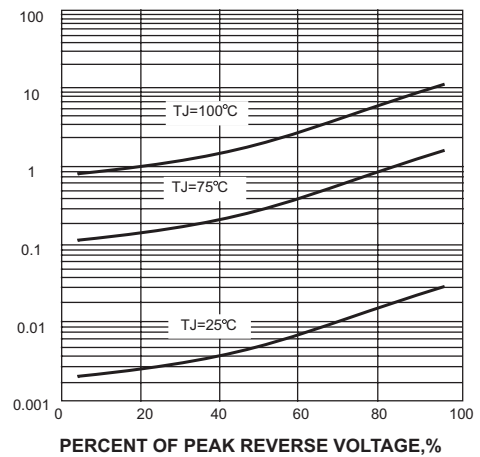
INSTANTANEOUS FORWARD CURRENT, AMPERES

FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



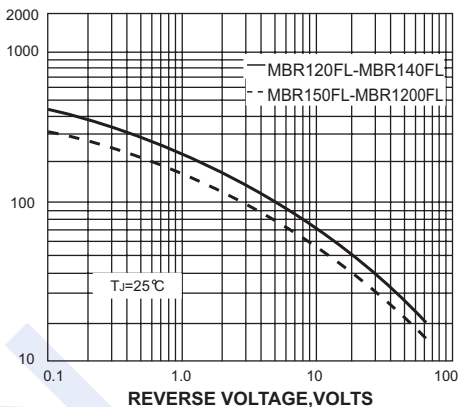
INSTANTANEOUS REVERSE CURRENT, MILLIAMPERES

FIG. 4-TYPICAL REVERSE CHARACTERISTICS



JUNCTION CAPACITANCE, pF

FIG. 5-TYPICAL JUNCTION CAPACITANCE



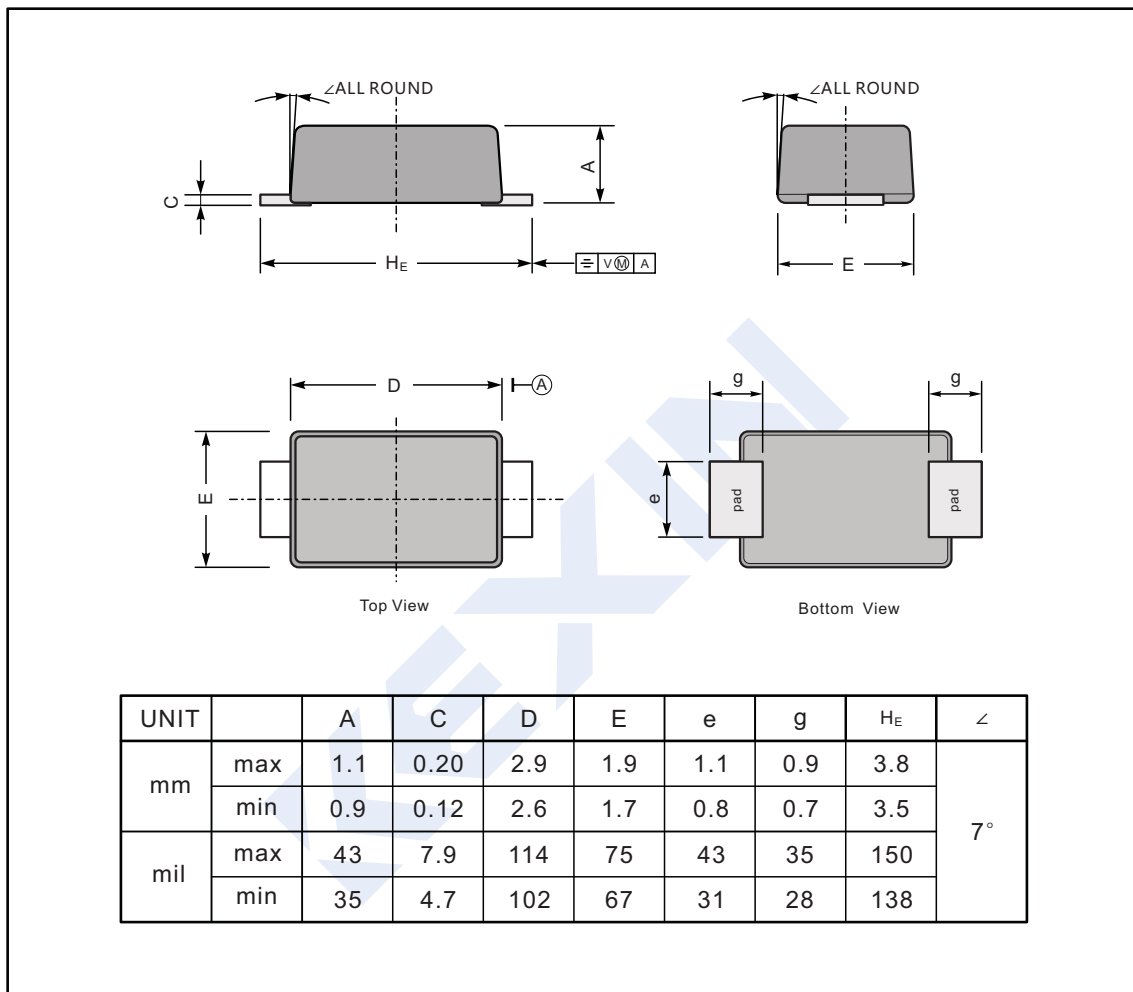
### Schottky Diodes

### MBR120FL ~ MBR1200FL

■ Package Outline Dimensions

Plastic surface mounted package; 2 leads

SOD-123FL



■ The recommended mounting pad size

