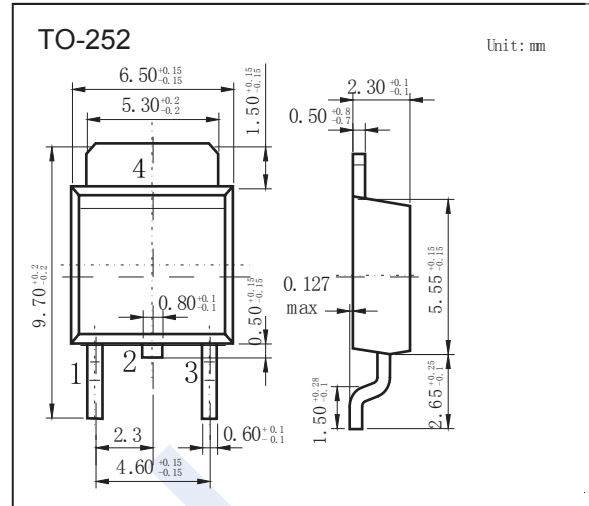
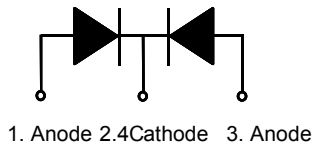


Schottky Barrier Rectifiers

MBRD1035CTLG (KBRD1035CTLG)

■ Features

- Fast Switching Speed
- For General Purpose Switching Applications.
- High Conductance



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

Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage	VRRM	35	V
Working Peak Reverse Voltage	VRWM		
DC Blocking Voltage	VRM		
Maximum Average Forward Current (Per Leg)	$I_{(AV)}$	5	A
Rectified Current (Per Device)		10	
Peak Forward Surge Current 8.3ms	IFM	100	
Thermal Resistance Junction to Case ¹	$R_{\theta JC}$	3	$^\circ\text{C}/\text{W}$
Junction Temperature	TJ	175	$^\circ\text{C}$
Storage Temperature range	Tstg	-65 to +175	

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	VR	IR= 100 μA	35			V
Forward voltage	VF	IF= 5 A TJ=25 $^\circ\text{C}$			0.5	
		IF= 5 A TJ=125 $^\circ\text{C}$			0.42	
Reverse voltage leakage current ²	IR	TJ=25 $^\circ\text{C}$			2	mA
		TJ=125 $^\circ\text{C}$			30	

Notes: 1. Device mounted on Polyimide substrate, 125mm² copper pad, double-sided, PC boards.

2. Short duration pulse test used to minimize self-heating effect.

Schottky Barrier Rectifiers

MBRD1035CTLG (KBRD1035CTLG)

■ Typical Characteristics

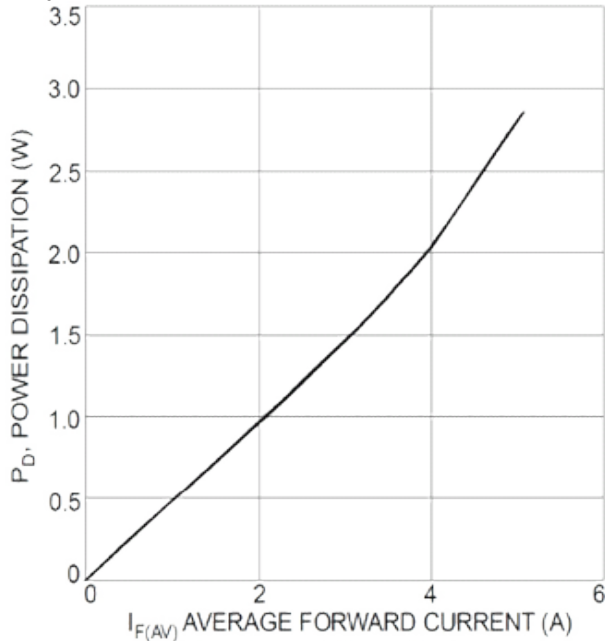


Fig. 1 Forward Power Dissipation

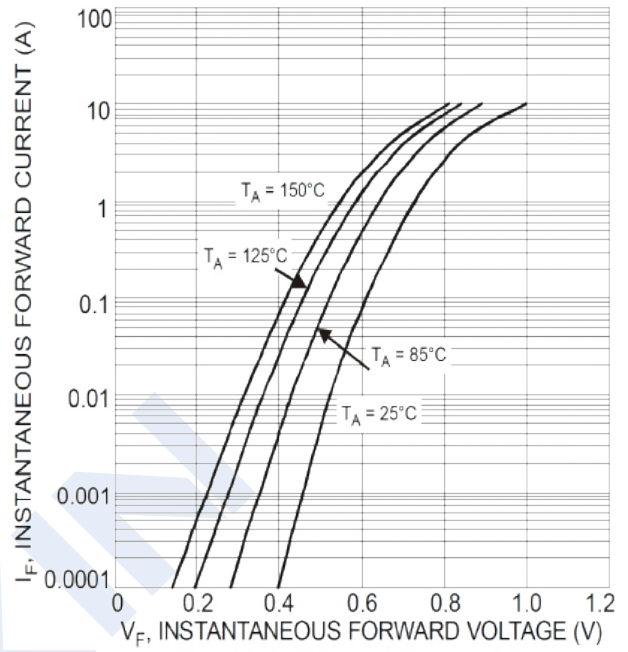


Fig. 2 Typical Forward Characteristics

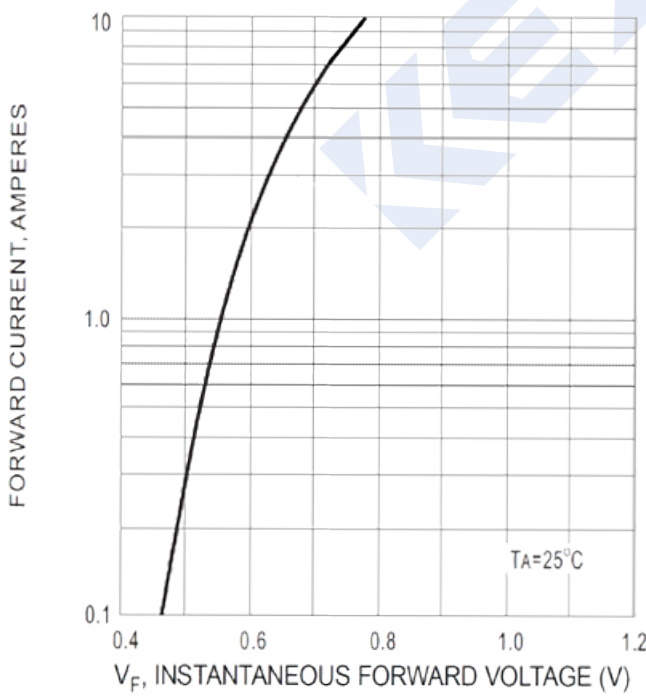


Fig. 2 Typical Forward Characteristics

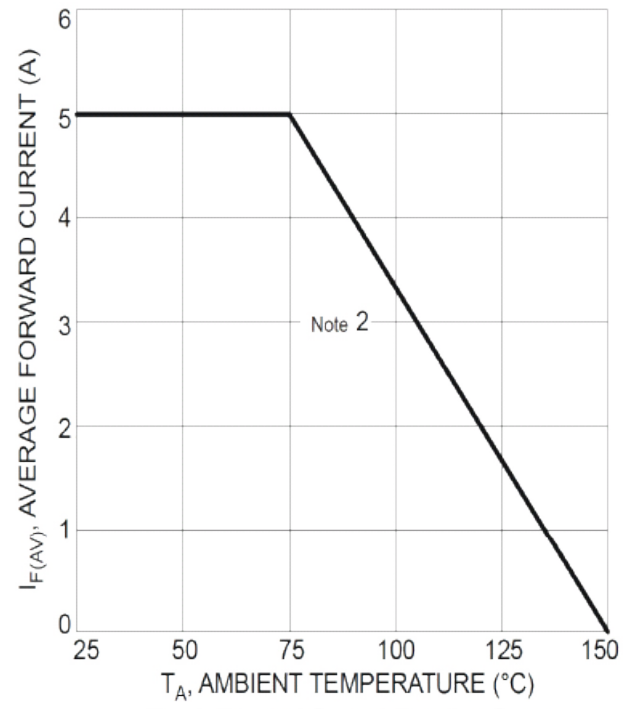


Fig. 4 Forward Current Derating Curve