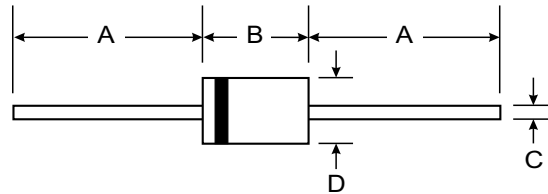


### Features

- High current capability
- High surge current capability
- High reliability
- High efficiency
- Low power loss
- Low forward voltage drop
- Pb / RoHS Free



### Mechanical Data

- Case : DO-41 Molded plastic
- Epoxy : UL94V-O rate flame retardant
- Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
- Polarity : Color band denotes cathode end
- Mounting position : Any
- Weight : 0.312 gram

DO-41		
Dim	Min	Max
A	25.40	—
B	4.06	5.21
C	0.71	0.864
D	2.00	2.72
All Dimensions in mm		

### Maximum Ratings and Electrical Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.

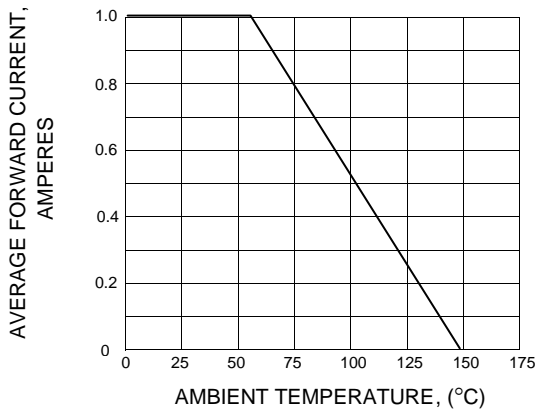
RATING	SYMBOL	MBR150	MBR160	UNIT
Maximum Peak Repetitive Reverse Voltage	$V_{RRM}$	50	60	V
Maximum Working Peak Reverse Voltage	$V_{RMS}$	50	60	V
Maximum DC Blocking Voltage	$V_{DC}$	50	60	V
Maximum Average Forward Current , $T_a = 55^\circ\text{C}$	$I_{F(AV)}$	1.0		A
Maximum Non-repetitive Peak Surge Current, (Surge applied at rated load conditions, Half wave, single phase 60 Hz, $T_L = 70^\circ\text{C}$ )	$I_{FSM}$	25		A
Maximum Instantaneous Forward Voltage at $I_F = 1.0\text{ A}^{(1)}$	$V_F$	0.75		V
Maximum Reverse Current at	$I_R$	0.5 ( $T_L = 25^\circ\text{C}$ )		mA
Rated DC Blocking Voltage <sup>(1)</sup>	$I_{R(H)}$	5.0 ( $T_L = 25^\circ\text{C}$ )		mA
Maximum Peak Operation Junction Temperature	$T_{J(PK)}$	150		$^\circ\text{C}$
Operating and Storage Junction Temperature Range	$T_J, T_{STG}$	- 65 to + 150		$^\circ\text{C}$

#### Note :

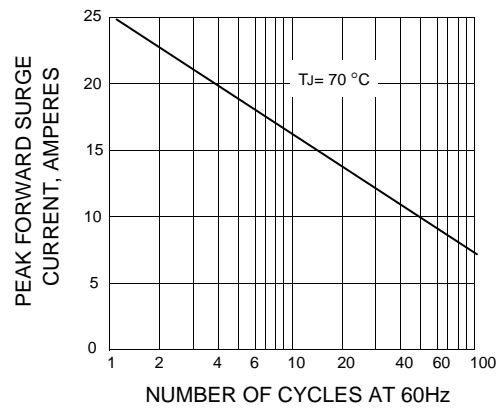
(1) Pulse Test : Pulse Width = 300 $\mu\text{s}$ , Duty Cycle = 2%



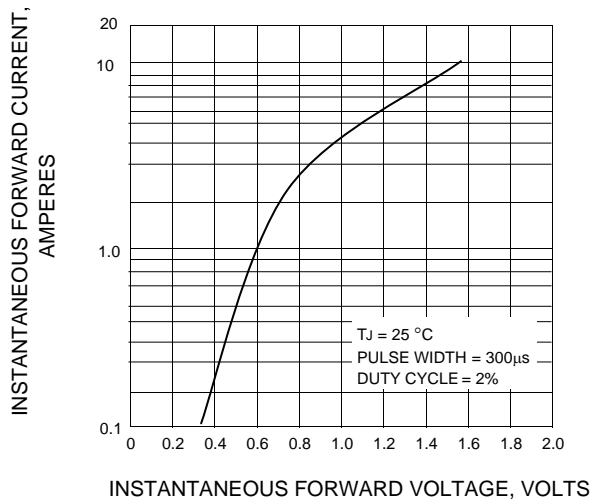
**FIG.1 - FORWARD CURRENT DERATING CURVE**



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



**FIG.3 - TYPICAL FORWARD CHARACTERISTICS**



**FIG.4 - TYPICAL REVERSE CHARACTERISTICS**

