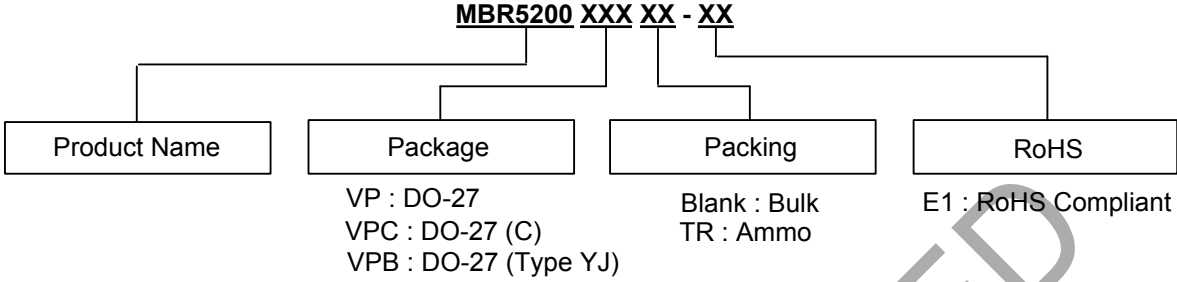


**Ordering Information**



Package	Part Number	Marking ID	Packing
DO-27	MBR5200VPTR-E1	5200VP	500 Pieces/Ammo
DO-27 (Type YJ)	MBR5200VPBTR-E1	5200VPB	500 Pieces/Ammo
DO-27 (C)	MBR5200VPC-E1	5200VPC	500 Pieces/Bulk

**Marking Information**

(1) DO-27

(Top View)



First Line: Logo and Date Code  
 Y: Year  
 WW: Work Week of Molding  
 A: Assembly House Code  
 Second Line: Marking ID  
 (See Ordering Information)

**Marking Information** (Cont.)

(2) DO-27 (C), DO-27 (Type YJ)



First Line: Logo and Date Code  
 Y: Year  
 WW: Work Week of Molding  
 A: Assembly House Code  
 Second Line: Marking ID  
 (See Ordering Information)

**Maximum Ratings** (per Diode Leg) (Note 3)

Characteristic	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage	$V_{RRM}$	200	V
Working Peak Reverse Voltage	$V_{RWM}$		
DC Blocking Voltage	$V_R$		
Average Rectified Forward Current (Rated $V_R$ ) $T_C = T_{BD}$	$I_{F(AV)}$	5	A
Non Repetitive Peak Surge Current (Surge Applied at Rated Load Conditions Half Wave, Single Phase, 60Hz)	$I_{FSM}$	100	A
Operating Junction Temperature Range (Note 4)	$T_J$	-65 to +150	°C
Storage Temperature Range	$T_{STG}$	-65 to +150	°C
Voltage Rate of Change (Rated $V_R$ )	$dv/dt$	10000	V/ $\mu$ s
ESD (Machine Model = C)	—	400	V
ESD (Human Body Model = 3B)	—	8000	V

Notes: 3. Stresses greater than those listed under "Absolute Maximum Ratings" may cause permanent damage to the device. These are stress ratings only, and functional operation of the device at these or any other conditions beyond those indicated under "Recommended Operating Conditions" is not implied. Exposure to "Absolute Maximum Ratings" for extended periods may affect device reliability.  
 4. The heat generated must be less than the thermal conductivity from Junction to Ambient:  $dP_D/dT_J < 1/\theta_{JA}$ .

**Thermal Characteristics**

Characteristic	Symbol	Rating	Unit
Maximum Thermal Resistance (Junction to Case)	$R_{\theta JC}$	5	°C/W
Maximum Thermal Resistance (Junction to Ambient)	$R_{\theta JA}$	30	

**Electrical Characteristics**

Characteristic	Symbol	Rating	Unit	Test Condition
Maximum Instantaneous Forward Voltage Drop (Note 5)	$V_F$	0.95	V	$I_F = 5A, T_C = +25^\circ C$
		0.75		$I_F = 5A, T_C = +125^\circ C$
Maximum Instantaneous Reverse Current (Note 5)	$I_R$	0.5	mA	Rated DC Voltage, $T_C = +25^\circ C$
		1.0		Rated DC Voltage, $T_C = +125^\circ C$

Note: 5. Short duration pulse test used to minimize self-heating effect, Pulse Test: Pulse Width = 300µs, Duty Cycle ≤ 2.0%.

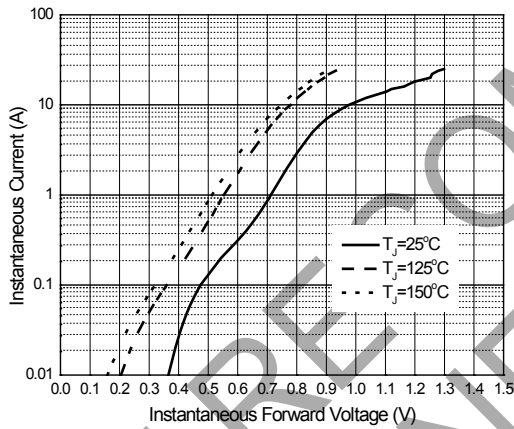


Figure 1. Typical Forward Characteristics

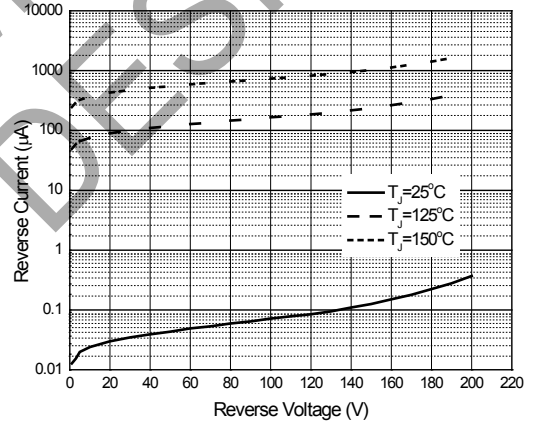


Figure 2. Typical Reverse Characteristics

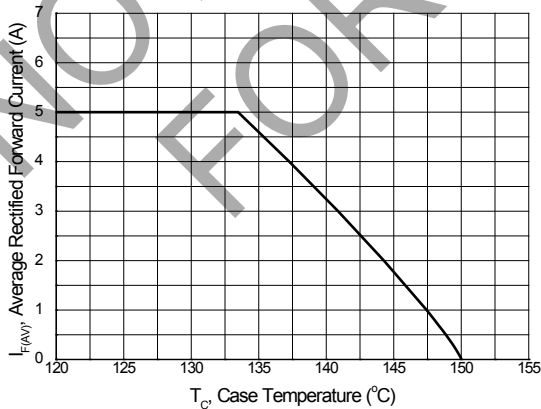


Figure 3. Average Rectified Forward Current vs. Case Temperature

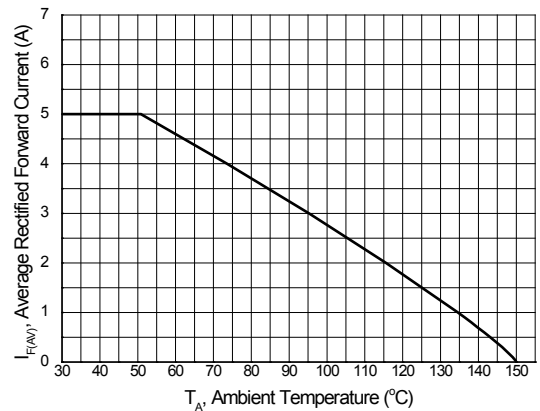
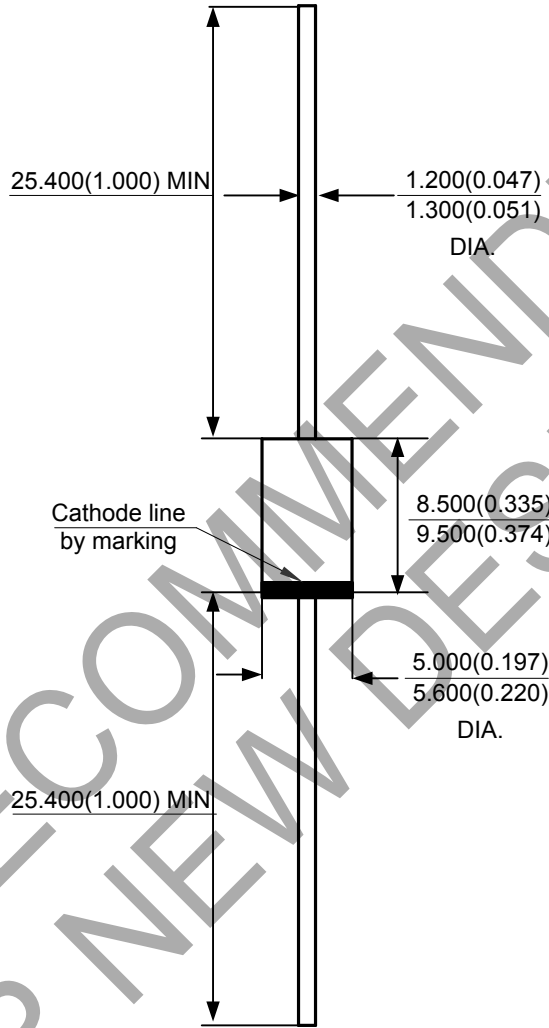


Figure 4. Average Rectified Forward Current vs. Ambient Temperature

**Package Outline Dimensions** (All dimensions in mm(inch).)

Please see <http://www.diodes.com/package-outlines.html> for the latest version.

(1) Package Type: DO-27

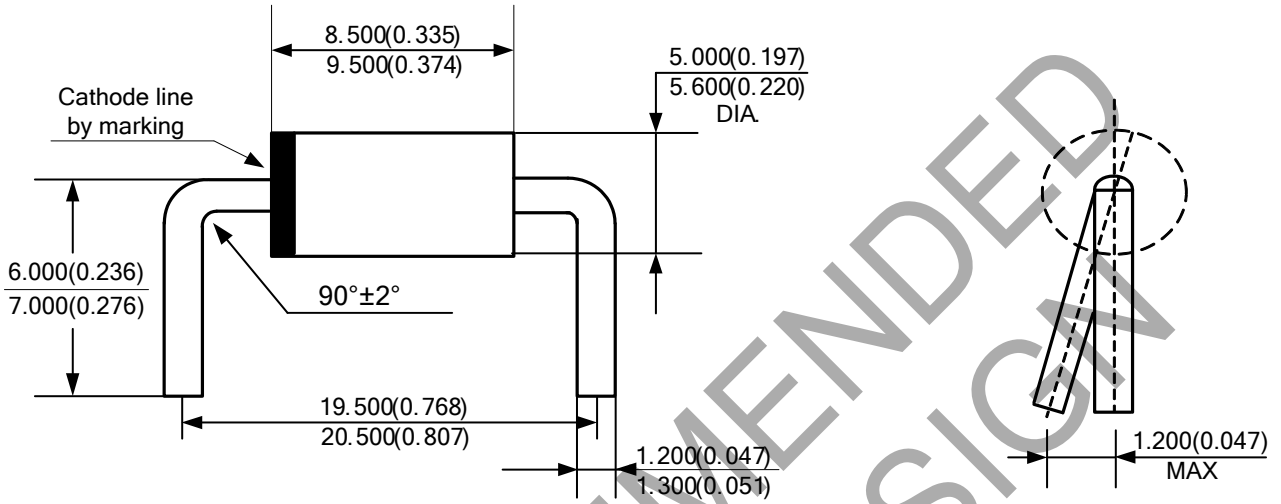


NOT RECOMMENDED FOR NEW DESIGN

**Package Outline Dimensions** (continued; All dimensions in mm(inch).)

Please see <http://www.diodes.com/package-outlines.html> for the latest version.

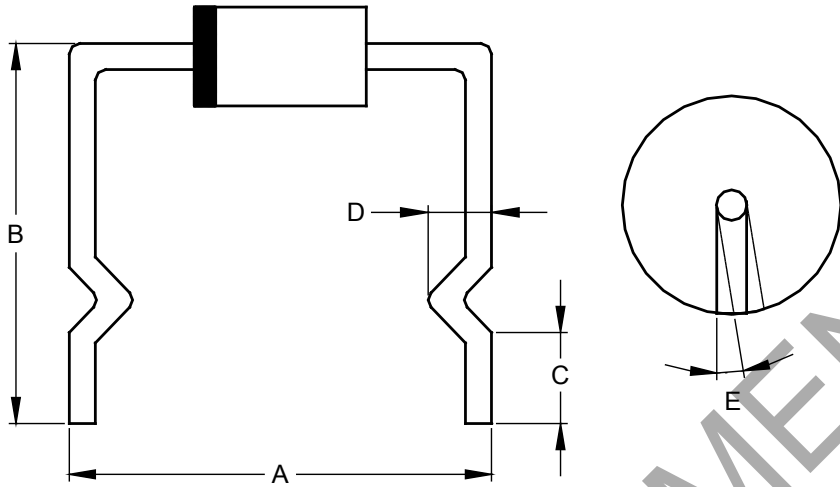
(2) **Package Type: DO-27 (C)**



**Package Outline Dimensions** (cont.)

Please see <http://www.diodes.com/package-outlines.html> for the latest version.

(3) Package Type: DO-27 (Type YJ)



DO-27 (Type YJ)			
Dim	Min	Max	Typ
A	16.17	16.27	16.22
B	14.11	15.11	14.61
C	3.00	4.00	3.50
D	2.3	--	--
E	0°	1.5°	--
All Dimensions in mm			

NOT RECOMMENDED FOR NEW DESIGN

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