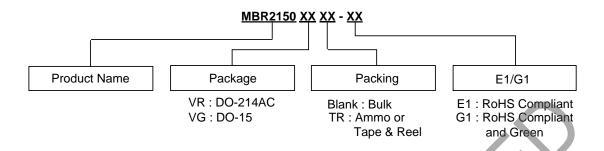


Ordering Information (Note 4)



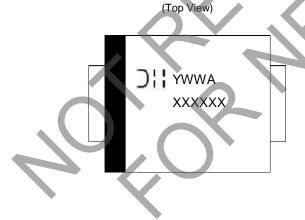


Package	Part Number	Marking ID	Packing	Status	Replacement
DO-214AC	MBR2150VRTR-G1	2150VR	7500/Tape & Reel	NRND	SBR2U150SA
DO-15	MBR2150VGTR-E1	2150VG	1500/Ammo	NRND	_

Note: 4. For packaging details, go to our website at https://www.diodes.com/design/support/packaging/diodes-packaging/.

Marking Information





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 (continued)

(2) DO-15



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

Absolute Maximum Ratings (Note 5)

Characteristic	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	150	V
Average Rectified Forward Current (Rated V_R , $T_C = TBD$)	I _{F(AV)}	2	А
Non-Repetitive Peak Surge Current (Surge Applied at Rated Load Conditions Half-Wave, Single-Phase, 60Hz)	IFSM	75	А
Operating Junction Temperature Range (Note 6)	TJ	-65 to +150	°C
Storage Temperature Range	Tstg	-65 to +150	°C
Voltage Rate of Change (Rated V _R)	dv/dt	10,000	V/µs
ESD (Machine Model = C)	_	400	V
ESD (Human Body Model = 3B)	_	8000	V

Notes: 5. Stresses greater than those listed under *Absolute Maximum Ratings* can 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 can affect device reliability.

^{6.} 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 Lead)	Rejl	DO-214AC	00	°C/W
(Note 7)		DO-15	23	
Maximum Thermal Resistance (Junction to Ambient)	Reja	DO-214AC	90	
(Note 7)		DO-15	80	

Note:

Electrical Characteristics

Characteristic	Symbol	Rating	Unit	Test Condition
Mariana Lata da Santa	V _F (MAX)	0.85		I _F = 2A, T _C = +25°C
Maximum Instantaneous Forward Voltage Drop (Note 8)		0.67	V	I _F = 2A, T _C = +125°C
Marianan lastastasana Barrana Gumant (Nata S)	I _R (MAX)	0.1		Rated DC Voltage, Tc = +25°C
Maximum Instantaneous Reverse Current (Note 8)		2.0	mA	Rated DC Voltage, T _C = +125°C

Note: 8. Short-duration pulse test used to minimize self-heating effect. Pulse Test: Pulse Width = 300µs, Duty Cycle ≤ 2.0%.

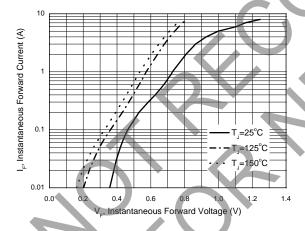


Figure 1. Typical Forward Characteristics

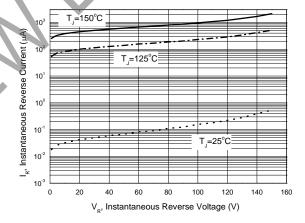


Figure 2. Typical Reverse Characteristics

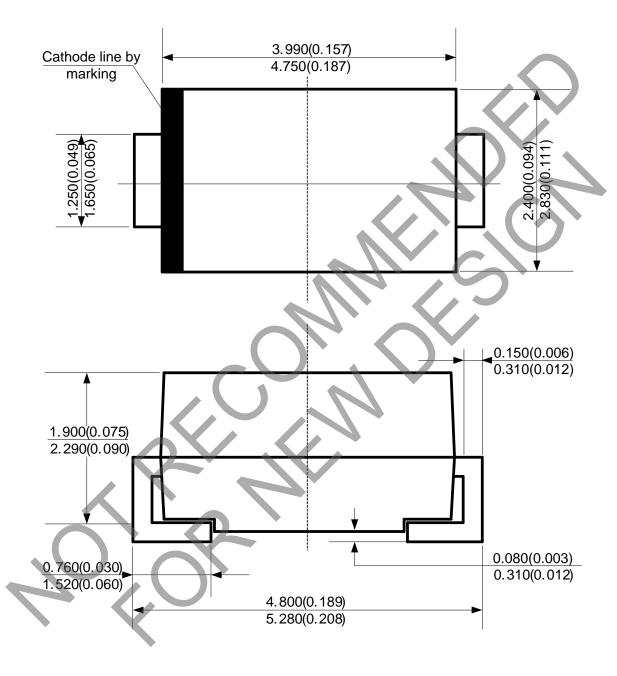
^{7.} Device mounted on heat sink with minimum recommended pad layout per http://www.diodes.com/package-outlines.html.



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-214AC

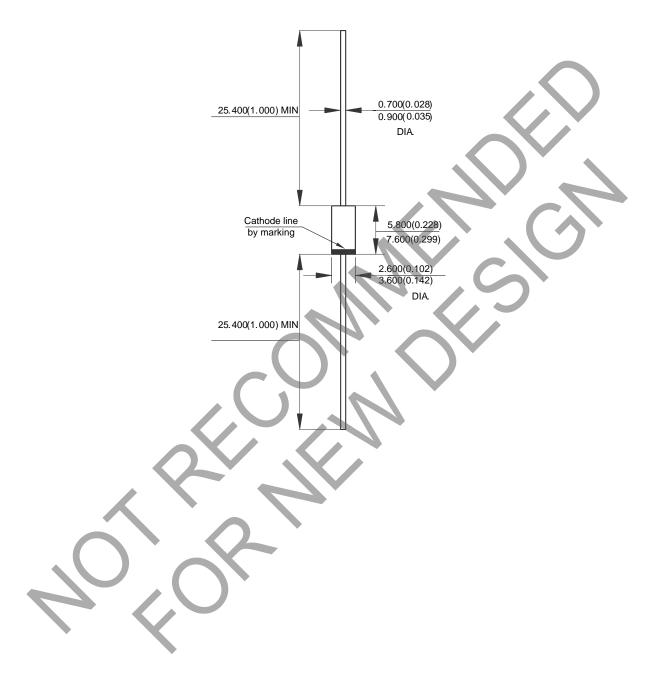




$\textbf{Package Outline Dimensions} \ \ (\texttt{continued}) \ \ (\texttt{All dimensions in mm(inch)})$

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

(2) Package Type: DO-15

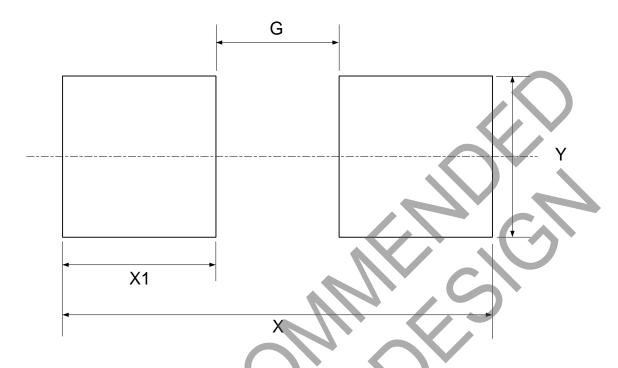




Suggested Pad Layout

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

(1) Package Type: DO-214AC



Dimensions	Υ	X1	G	Х
Dimensions	(mm)/(inch)	(mm)/(inch)	(mm)/(inch)	(mm)/(inch)
Value	2.100/0.083	2.000/0.079	1.600/0.063	5.600/0.220



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