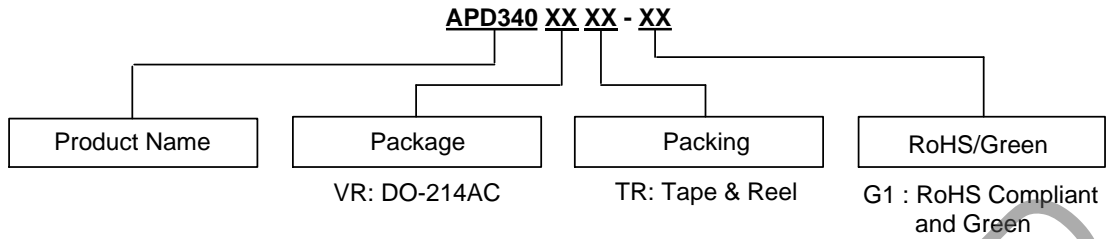


Ordering Information (Note 4)



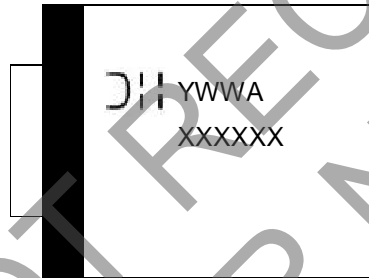
Package	Temperature Range	Part Number	Marking ID	Packing	Status	Replacement
DO-214AC	-50 to +125°C	APD340VRTR-G1	340VRG	7500/Tape & Reel	NRND	B340A-13-F

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

Marking Information

(1) DO-214AC

(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)

Maximum Ratings ($T_A = +25^\circ\text{C}$, unless otherwise noted.) (Note 5)

Characteristic	Symbol	Rating	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	40	V
Maximum DC Blocking Voltage	V_{DC}	40	V
Maximum RMS Voltage	V_{RMS}	28	V
Average Rectified Forward Current 0.375" (9.5mm) Lead Length	$I_{F(AV)}$	3.0	A
Non-repetitive Peak Forward Surge Current 8.3ms Single Half Sine-wave on Rated Load	I_{FSM}	80	A
Operating Junction Temperature Range (Note 6)	T_J	-50 to +125	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-50 to +150	$^\circ\text{C}$

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 ($T_A = +25^\circ\text{C}$, unless otherwise noted.)

Characteristic	Symbol	Rating	Unit
Typical Thermal Resistance (Note 7)	$R_{\theta JA}$	DO-214AC 75	$^\circ\text{C/W}$

Note 7: Device mounted on heat sink, with minimum recommended pad layout per <http://www.diodes.com/package-outlines.html>.

Electrical Characteristics ($T_A = +25^\circ\text{C}$, unless otherwise noted.)

Characteristic	Symbol	Rating	Unit	Test Condition
Forward Voltage @ $I_F = 3.0\text{A}$	V_F	0.5	V	—
Reverse Current @ Rated V_R (Note 8)	I_R	0.5	mA	$T_A = +25^\circ\text{C}$
		10		$T_A = +100^\circ\text{C}$

Note 8: Short duration pulse test used to minimize self-heating effect, Pulse Test: 300 μs pulse width, 1.0% duty cycle.

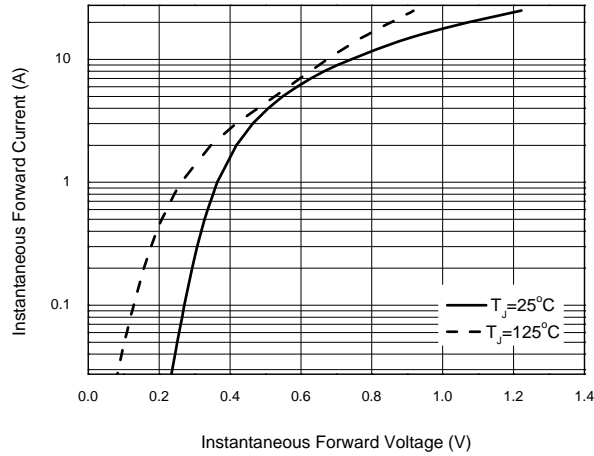


Figure 1. Typical Instantaneous Forward Characteristics

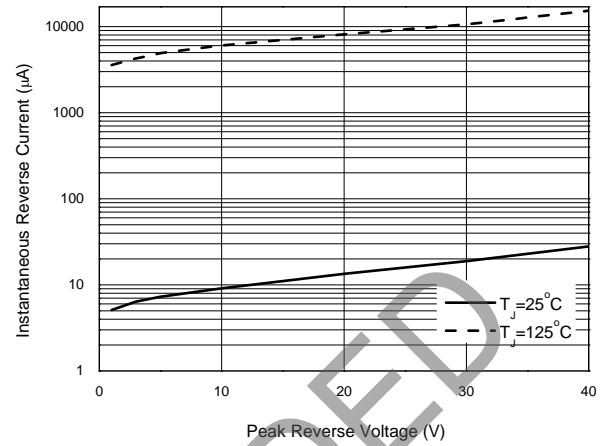


Figure 2. Typical Reverse Characteristics

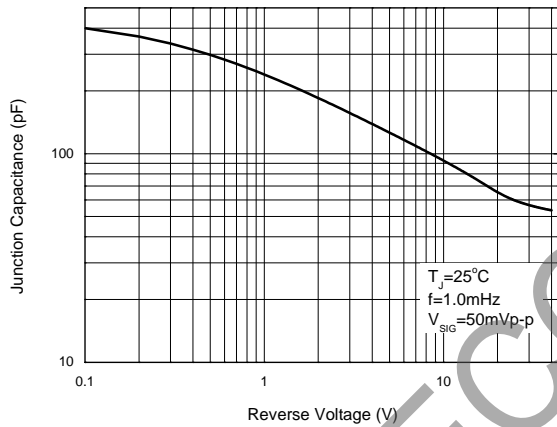


Figure 3. Typical Junction Capacitance

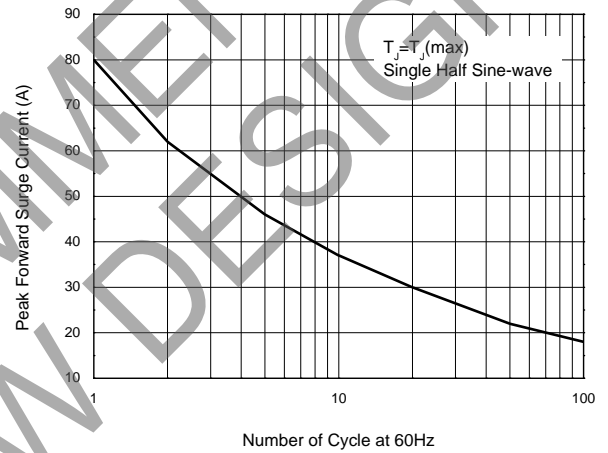


Figure 4. Maximum Non-Repetitive Peak Forward Surge Current

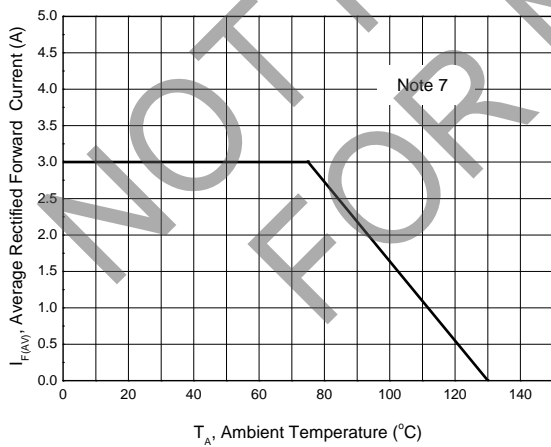
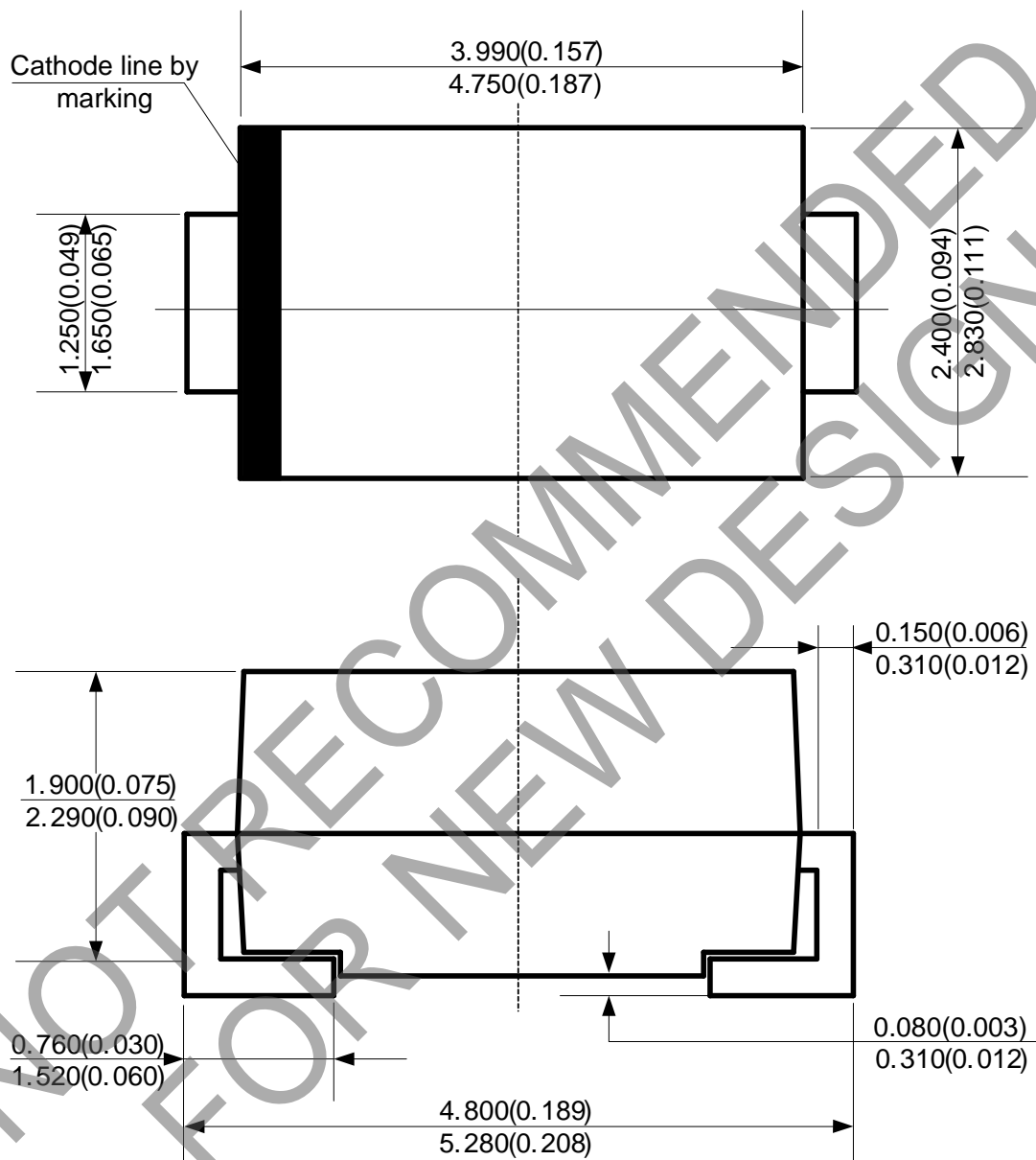


Figure 5. Forward Current Derating Curves

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

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

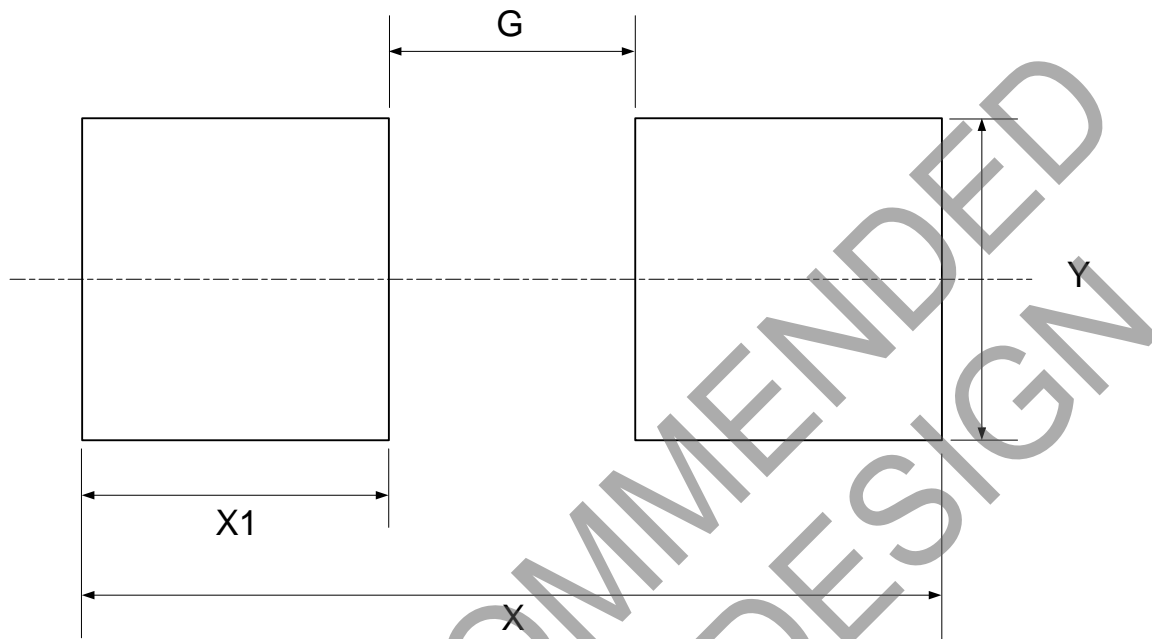
(1) Package Type: DO-214AC



Suggested Pad Layout

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

(1) Package Type: DO-214AC



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

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