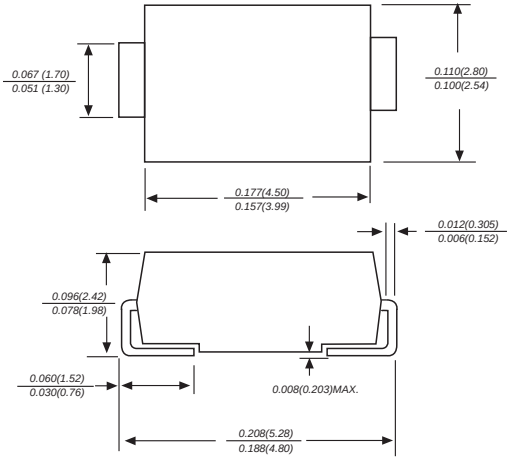
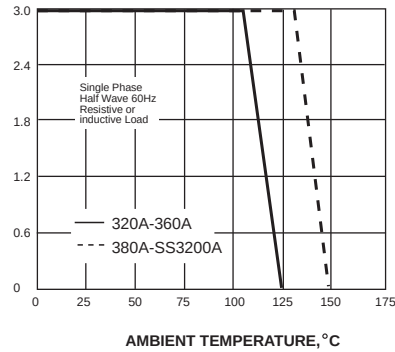


DO-214AC/SMA  Dimensions in inches and (millimeters)	FEATURES ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0 ◆ For surface mounted applications ◆ Low reverse leakage ◆ Built-in strain relief,ideal for automated placement ◆ High forward surge current capability ◆ High temperature soldering guaranteed: 250°C/10 seconds at terminals MECHANICAL DATA Case: JEDEC DO-214AC molded plastic body Terminals: leads solderable per MIL-STD-750, Method 2026 Polarity: Color band denotes cathode end Mounting Position: Any Weight:0.002 ounce, 0.07 grams																																																																																																																																																					
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz,resistive or inductive load,for capacitive load current derate by 20%. <table><tr><th>Catalog Number</th><th>SYMBOLS</th><th>320A</th><th>330A</th><th>340A</th><th>350A</th><th>360A</th><th>380A</th><th>3100A</th><th>3150A</th><th>3200A</th><th>UNITS</th></tr><tr><td>Maximum repetitive peak reverse voltage</td><td>V_{RRM}</td><td>20</td><td>30</td><td>40</td><td>50</td><td>60</td><td>80</td><td>100</td><td>150</td><td>200</td><td>VOLTS</td></tr><tr><td>Maximum RMS voltage</td><td>V_{RMS}</td><td>14</td><td>21</td><td>28</td><td>35</td><td>42</td><td>56</td><td>70</td><td>105</td><td>150</td><td>VOLTS</td></tr><tr><td>Maximum DC blocking voltage</td><td>V_{DC}</td><td>20</td><td>30</td><td>40</td><td>50</td><td>60</td><td>80</td><td>100</td><td>150</td><td>200</td><td>VOLTS</td></tr><tr><td>Maximum average forward rectified current at T_L(see fig.1)</td><td>I_(AV)</td><td colspan="9">3.0</td><td>Amps</td></tr><tr><td>Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)</td><td>I_{FSM}</td><td colspan="9">100.0</td><td>Amps</td></tr><tr><td>Maximum instantaneous forward voltage at 3.0A</td><td>V_F</td><td colspan="2">0.55</td><td colspan="2">0.70</td><td colspan="2">0.85</td><td colspan="2">0.95</td><td>Volts</td></tr><tr><td rowspan="2">Maximum DC reverse current T_A=25°C at rated DC blocking voltage T_A=100°C</td><td rowspan="2">I_R</td><td colspan="6">0.5</td><td colspan="2">0.2</td><td rowspan="2">mA</td></tr><tr><td colspan="4">20</td><td colspan="2">10</td><td colspan="2">2.0</td></tr><tr><td>Typical junction capacitance (NOTE 1)</td><td>C_J</td><td colspan="2">500</td><td colspan="6">300</td><td>pF</td></tr><tr><td>Typical thermal resistance (NOTE 2)</td><td>R_{θJA}</td><td colspan="9">55.0</td><td>°C/W</td></tr><tr><td>Operating junction temperature range</td><td>T_J</td><td colspan="5">-65 to +125</td><td colspan="4">-65 to +150</td><td>°C</td></tr><tr><td>Storage temperature range</td><td>T_{STG}</td><td colspan="9">-65 to +150</td><td>°C</td></tr></table> Note:1.Measured at 1MHz and applied reverse voltage of 4.0V D.C. 2.P.C.B. mounted with 0.2x0.2”(5.0x5.0mm) copper pad areas		Catalog Number	SYMBOLS	320A	330A	340A	350A	360A	380A	3100A	3150A	3200A	UNITS	Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	50	60	80	100	150	200	VOLTS	Maximum RMS voltage	V _{RMS}	14	21	28	35	42	56	70	105	150	VOLTS	Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	80	100	150	200	VOLTS	Maximum average forward rectified current at T _L (see fig.1)	I _(AV)	3.0									Amps	Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	100.0									Amps	Maximum instantaneous forward voltage at 3.0A	V _F	0.55		0.70		0.85		0.95		Volts	Maximum DC reverse current T _A =25°C at rated DC blocking voltage T _A =100°C	I _R	0.5						0.2		mA	20				10		2.0		Typical junction capacitance (NOTE 1)	C _J	500		300						pF	Typical thermal resistance (NOTE 2)	R _{θJA}	55.0									°C/W	Operating junction temperature range	T _J	-65 to +125					-65 to +150				°C	Storage temperature range	T _{STG}	-65 to +150									°C
Catalog Number	SYMBOLS	320A	330A	340A	350A	360A	380A	3100A	3150A	3200A	UNITS																																																																																																																																											
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	50	60	80	100	150	200	VOLTS																																																																																																																																											
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	56	70	105	150	VOLTS																																																																																																																																											
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	80	100	150	200	VOLTS																																																																																																																																											
Maximum average forward rectified current at T _L (see fig.1)	I _(AV)	3.0									Amps																																																																																																																																											
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	100.0									Amps																																																																																																																																											
Maximum instantaneous forward voltage at 3.0A	V _F	0.55		0.70		0.85		0.95		Volts																																																																																																																																												
Maximum DC reverse current T _A =25°C at rated DC blocking voltage T _A =100°C	I _R	0.5						0.2		mA																																																																																																																																												
		20				10		2.0																																																																																																																																														
Typical junction capacitance (NOTE 1)	C _J	500		300						pF																																																																																																																																												
Typical thermal resistance (NOTE 2)	R _{θJA}	55.0									°C/W																																																																																																																																											
Operating junction temperature range	T _J	-65 to +125					-65 to +150				°C																																																																																																																																											
Storage temperature range	T _{STG}	-65 to +150									°C																																																																																																																																											

AVERAGE FORWARD RECTIFIED CURRENT,
AMPERES

FIG. 1- FORWARD CURRENT DERATING CURVE



PEAK FORWARD SURGE CURRENT,
AMPERES

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

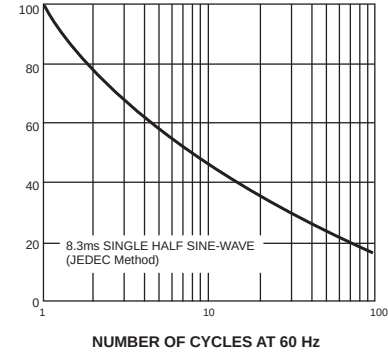
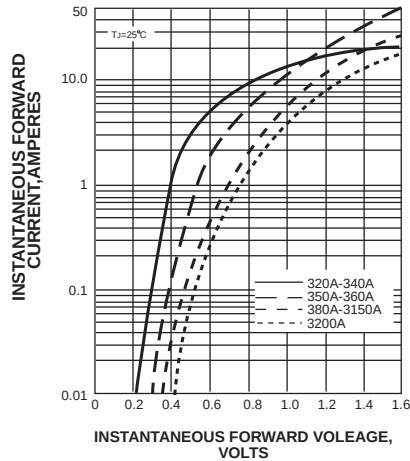


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



INSTANTANEOUS REVERSE CURRENT,
MILLIAMPERES

FIG. 4-TYPICAL REVERSE CHARACTERISTICS

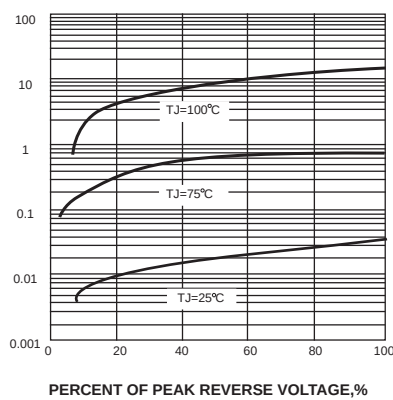
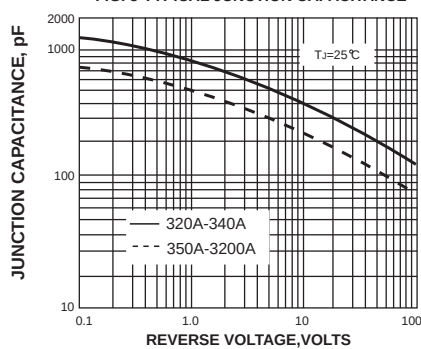


FIG. 5-TYPICAL JUNCTION CAPACITANCE



TRANSIENT THERMAL IMPEDANCE,
°C/W

FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE

