

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER	<p>Reverse Voltage - 20 to 100 Volts Forward Current -3.0 Amperes</p>																																																																																																																										
<p style="text-align: center;">DO-214AC</p> <p style="text-align: center;"><i>Dimensions in inches and (millimeters)</i></p>	<p>Features</p> <ul style="list-style-type: none"> ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0 ◆ For surface mounted applications ◆ Metal silicon junction, majority carrier conduction ◆ Low power loss, high efficiency ◆ Built-in strain relief, ideal for automated placement ◆ High forward surge current capability ◆ High temperature soldering guaranteed: 260°C/10 seconds at terminals <p>Mechanical Data</p> <p>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</p>																																																																																																																										
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS																																																																																																																											
<p>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%.</p>																																																																																																																											
	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>SYMBOLS</th> <th>SS32A</th> <th>SS33A</th> <th>SS34A</th> <th>SS35A</th> <th>SS36A</th> <th>SS38A</th> <th>SS310A</th> <th>UNITS</th> </tr> </thead> <tbody> <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>V</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>V</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>V</td> </tr> <tr> <td>Maximum average forward rectified current at T_L (see fig.1)</td> <td>$I_{(AV)}$</td> <td colspan="7" style="text-align: center;">3.0</td> <td>A</td> </tr> <tr> <td>Peak forward surge current 8.3ms single half sine-wave superimposed on rated load</td> <td>I_{FSM}</td> <td colspan="7" style="text-align: center;">70.0</td> <td>A</td> </tr> <tr> <td>Maximum instantaneous forward voltage at 3.0A</td> <td>V_F</td> <td colspan="2" style="text-align: center;">0.55</td> <td colspan="2" style="text-align: center;">0.70</td> <td colspan="2" style="text-align: center;">0.85</td> <td>V</td> </tr> <tr> <td>Maximum DC reverse current at rated DC blocking voltage</td> <td>I_R</td> <td colspan="2" style="text-align: center;">0.5</td> <td colspan="2" style="text-align: center;">20</td> <td colspan="2" style="text-align: center;">0.1</td> <td rowspan="2">mA</td> </tr> <tr> <td></td> <td></td> <td colspan="2" style="text-align: center;">20</td> <td colspan="2" style="text-align: center;">10</td> </tr> <tr> <td>Typical junction capacitance (NOTE 1)</td> <td>C_J</td> <td colspan="3" style="text-align: center;">500</td> <td colspan="3" style="text-align: center;">300</td> <td>pF</td> </tr> <tr> <td>Typical thermal resistance (NOTE 2)</td> <td>$R_{\theta JA}$</td> <td colspan="7" style="text-align: center;">75.0</td> <td>°C/W</td> </tr> <tr> <td>Operating junction temperature range</td> <td>T_J</td> <td colspan="3" style="text-align: center;">-55 to +125</td> <td colspan="3" style="text-align: center;">-55 to +150</td> <td>°C</td> </tr> <tr> <td>Storage temperature range</td> <td>T_{STG}</td> <td colspan="7" style="text-align: center;">-55 to +150</td> <td>°C</td> </tr> </tbody> </table>		SYMBOLS	SS32A	SS33A	SS34A	SS35A	SS36A	SS38A	SS310A	UNITS	Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	50	60	80	100	V	Maximum RMS voltage	V_{RMS}	14	21	28	35	42	56	70	V	Maximum DC blocking voltage	V_{DC}	20	30	40	50	60	80	100	V	Maximum average forward rectified current at T_L (see fig.1)	$I_{(AV)}$	3.0							A	Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	70.0							A	Maximum instantaneous forward voltage at 3.0A	V_F	0.55		0.70		0.85		V	Maximum DC reverse current at rated DC blocking voltage	I_R	0.5		20		0.1		mA			20		10		Typical junction capacitance (NOTE 1)	C_J	500			300			pF	Typical thermal resistance (NOTE 2)	$R_{\theta JA}$	75.0							°C/W	Operating junction temperature range	T_J	-55 to +125			-55 to +150			°C	Storage temperature range	T_{STG}	-55 to +150							°C
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<p>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</p>																																																																																																																											

RATINGS AND CHARACTERISTIC CURVES SS32 THRU SS310

FIG. 1- FORWARD CURRENT DERATING CURVE

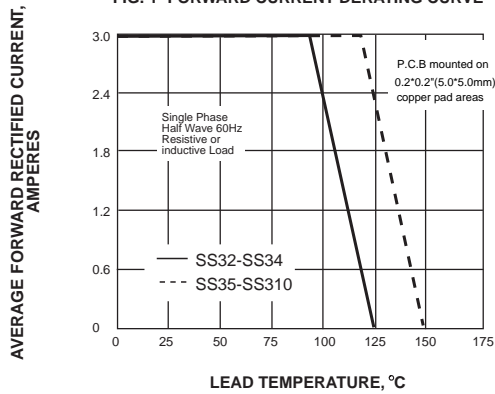


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

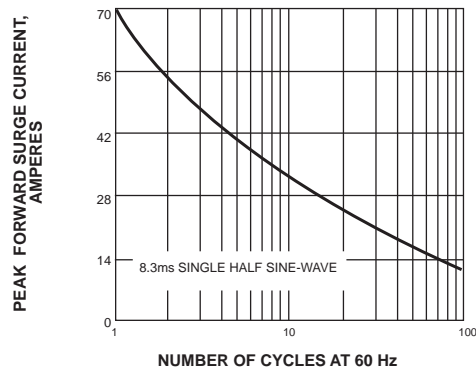


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

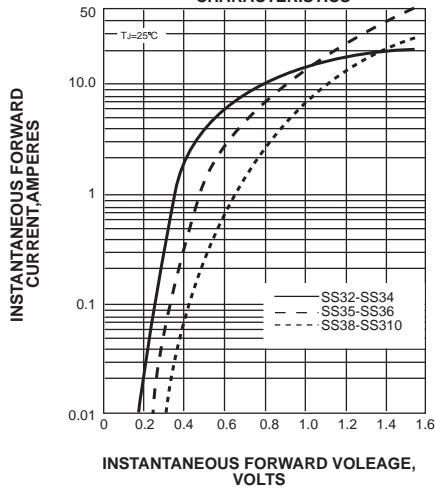


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

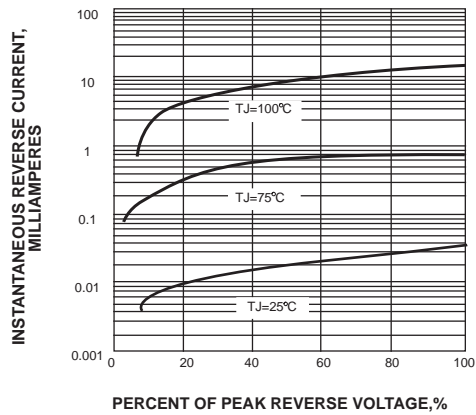


FIG. 5-TYPICAL JUNCTION CAPACITANCE

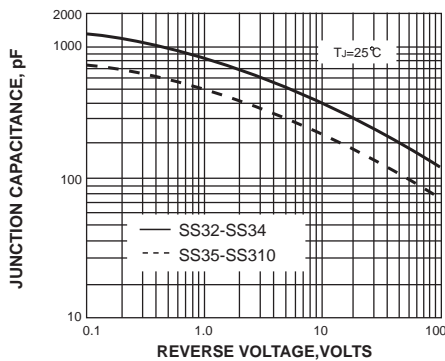
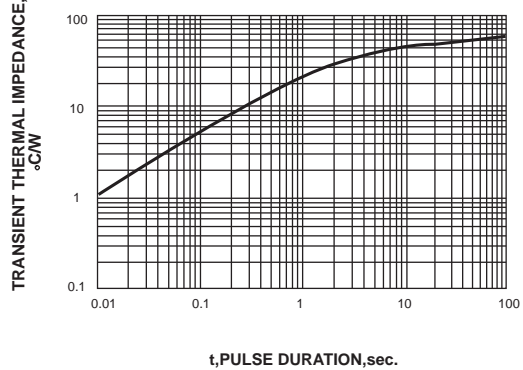


FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE



单击下面可查看定价，库存，交付和生命周期等信息

[>>DIOS\(迪恩思\)](#)