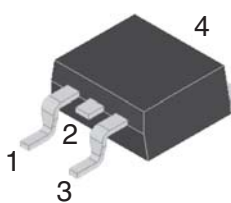
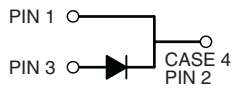











8.0 Amp. Surface Mount Glass Passivated Ultrafast Recovery Rectifier

<p style="text-align: center; font-weight: bold; font-size: 1.2em;">TO-263AB (D2PAK)</p> <div style="text-align: center;">  </div> <div style="text-align: center; margin-top: 20px;">  </div>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center; width: 50%;">Voltage 200 to 600 V</td> <td style="text-align: center; width: 50%;">Current 8.0 A</td> </tr> <tr> <td colspan="2" style="text-align: center;">  </td> </tr> <tr> <td colspan="2"> <p>FEATURES</p> <ul style="list-style-type: none"> Low profile package Ideal for automated placement Ultrafast recovery time for high efficiency Low power losses Low forward voltage drop High forward surge current capability Solder dip 260°C, 10s AEC-Q101 qualified Component in accordance to RoHS 2011/65/EU and WEEE 2002/96/EC Meets MSL level 1, per J-STD-020, LF maximum peak of 260° C </td> </tr> <tr> <td colspan="2" style="text-align: right; vertical-align: middle;">   RoHS COMPLIANT </td> </tr> <tr> <td colspan="2"> <p>MECHANICAL DATA</p> <ul style="list-style-type: none"> Case: TO-263AB (D2PAK). Epoxy meets UL 94V-0 flammability rating. Polarity: Color band denotes cathode end. Terminals: Matte tin plated leads, solderable per MIL-STD-750 Method 2026, J-STD-002 and JESD22-B102. Consumer grade, meets JESD 201 class 1A whisker test. </td> </tr> <tr> <td colspan="2"> <p>TYPICAL APPLICATIONS</p> <p>Used in high frequency rectification and freewheeling application in switching mode converters and inverters for consumer, computer, automotive and telecommunication.</p> </td> </tr> </table>	Voltage 200 to 600 V	Current 8.0 A			<p>FEATURES</p> <ul style="list-style-type: none"> Low profile package Ideal for automated placement Ultrafast recovery time for high efficiency Low power losses Low forward voltage drop High forward surge current capability Solder dip 260°C, 10s AEC-Q101 qualified Component in accordance to RoHS 2011/65/EU and WEEE 2002/96/EC Meets MSL level 1, per J-STD-020, LF maximum peak of 260° C 		  RoHS COMPLIANT		<p>MECHANICAL DATA</p> <ul style="list-style-type: none"> Case: TO-263AB (D2PAK). Epoxy meets UL 94V-0 flammability rating. Polarity: Color band denotes cathode end. Terminals: Matte tin plated leads, solderable per MIL-STD-750 Method 2026, J-STD-002 and JESD22-B102. Consumer grade, meets JESD 201 class 1A whisker test. 		<p>TYPICAL APPLICATIONS</p> <p>Used in high frequency rectification and freewheeling application in switching mode converters and inverters for consumer, computer, automotive and telecommunication.</p>	
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Maximun Ratings and Electrical Characteristics at 25°C

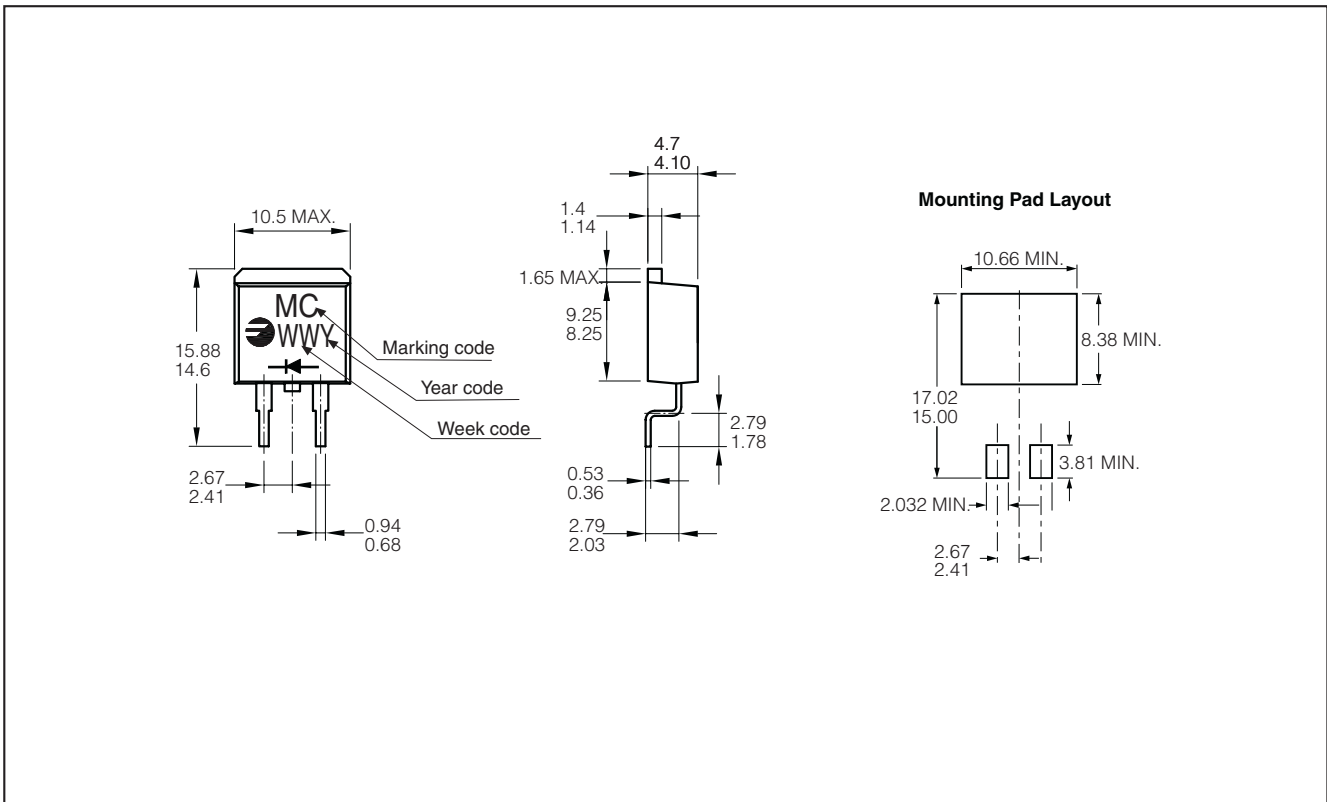
Marking Code		SFAS804G	SFAS806G	SFAS808G
		SFAS804G	SFAS806G	SFAS808G
V_{RRM}	Maximum Recurrent Peak Reverse Voltage (V)	200	400	600
V_{RMS}	Maximum RMS Voltage (V)	140	280	420
V_{DC}	Maximum DC Blocking Voltage (V)	200	400	600
$I_{F(AV)}$	Forward current at $T_C = 100\text{ }^\circ\text{C}$	8.0 A		
I_{FSM}	8.3 ms. peak forward surge current (Jedec Method)	125 A		
V_F	Maximum Instantaneous Forward Voltage at 8.0A $T_j = 25\text{ }^\circ\text{C}$	0.975 V	1.3 V	1.7 V
I_R	Maximum DC Reverse Current $T_j = 25\text{ }^\circ\text{C}$ at Rated DC Blocking Voltage $T_j = 100\text{ }^\circ\text{C}$	10 μA 400 μA		
T_{rr}	Maximum Reverse Recovery Time (0.5/1/0.25A)	35 ns		
C_j	Typical Junction Capacitance (1MHz; -4V)	80 pF	60 pF	
$R_{th(j-c)}$	Maximum Thermal Resistance	2.2 $^\circ\text{C/W}$		
$T_j - T_{stg}$	Operating Junction and Storage Temperature Range	-65 to + 150 $^\circ\text{C}$		

8.0 Amp. Surface Mount Glass Passivated Ultrafast Recovery Rectifier

Ordering information

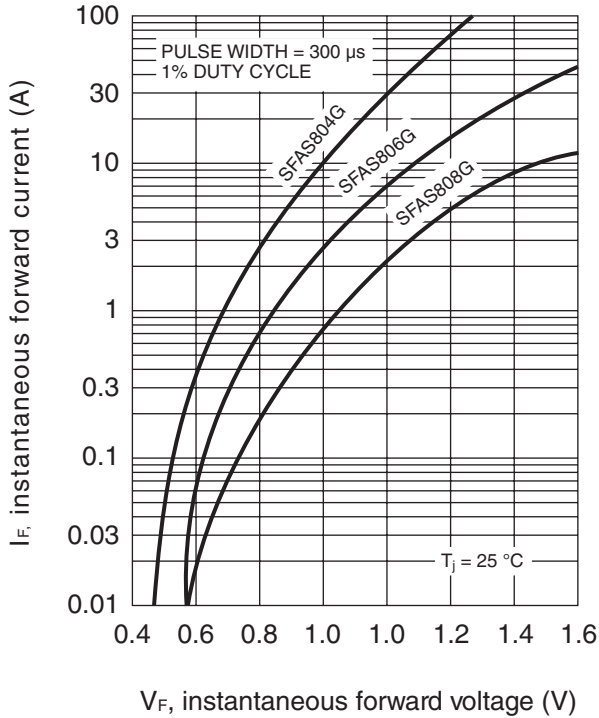
PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
SFAS806GC 00TRC	TR	13" diameter tape and reel	800	1.45

Package Outline Dimensions: (mm) TO-263AB (D2PAK)

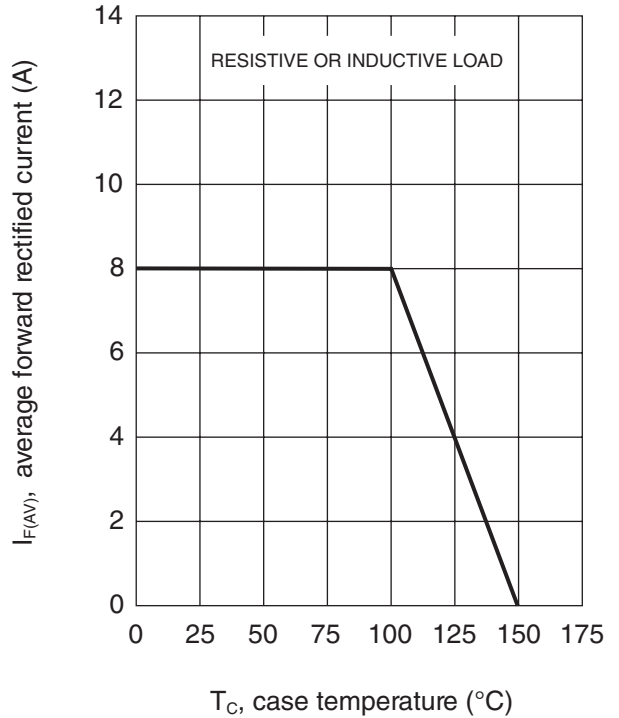


8.0 Amp. Surface Mount Glass Passivated Ultrafast Recovery Rectifier

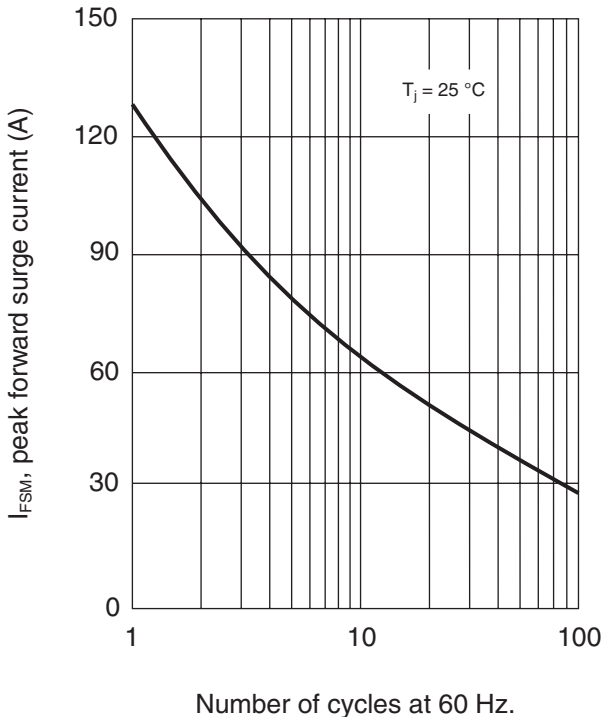
TYPICAL FORWARD CHARACTERISTIC



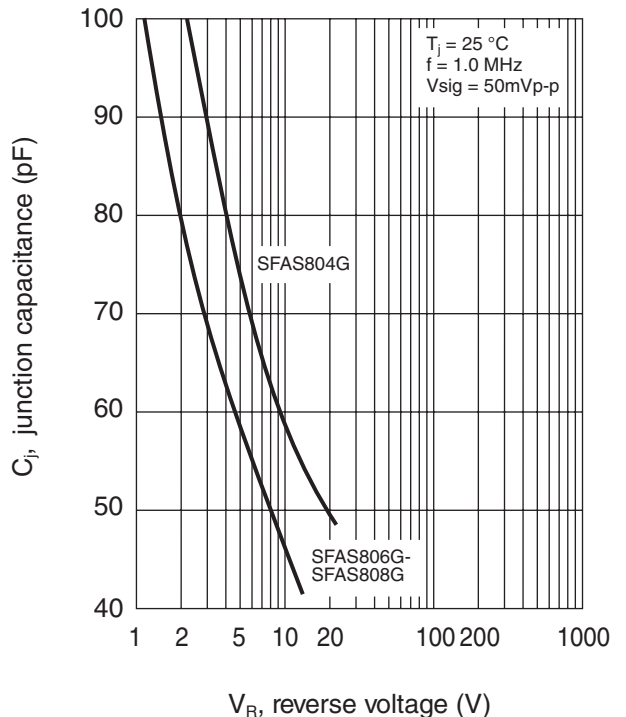
FORWARD CURRENT DERATING CURVE



MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



TYPICAL JUNCTION CAPACITANCE



8.0 Amp. Surface Mount Glass Passivated Ultrafast Recovery Rectifier

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