

### 3 Amp. Surface Mounted Glass Passivated Rectifier

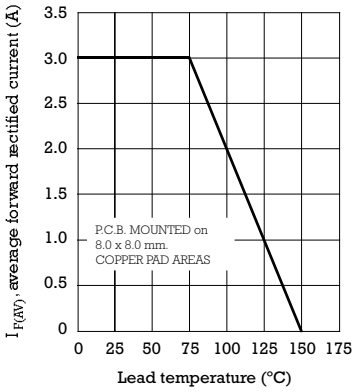
<p>Dimensions in mm.</p> <p>                 CASE:                  SMC/DO-214AB             </p>	<p>                 Voltage                  50 to 1000 V             </p> <p>                 Current                  3.0 A             </p>
<p>                 • Glass passivated junction                  • High current capability                  • The plastic material carries U/L 94 V-0                  • Low profile package                  • Easy pick and place                  • High temperature soldering 260 °C 10 sec             </p>	<p><b>MECHANICAL DATA</b></p> <p>                 Terminals: Solder plated, solderable per IEC 68-2-20.                  Standard Packaging: 8 mm. tape (EIA-RS-481).                  Weight: 1.12 g.             </p>

#### Maximum Ratings and Electrical Characteristics at 25 °C

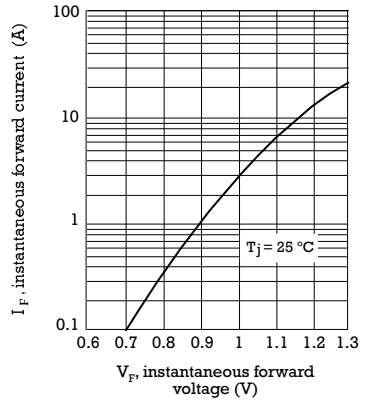
		FS3A	FS3B	FS3D	FS3G	FS3J	FS3K	FS3M
Marking Code		T1	T2	T3	T4	T5	T6	T7
$V_{RRM}$	Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000
$V_{RMS}$	Maximum RMS Voltage	35	70	140	280	420	560	700
$V_{DC}$	Maximum DC Blocking Voltage	50	100	200	400	600	800	1000
$I_{F(AV)}$	Forward current at $T_L = 75\text{ °C}$	3 A						
$I_{FSM}$	8.3 ms. peak forward surge current (Jedec Method)	100 A						
$V_F$	Maximum Instantaneous Forward Voltage at 3 A	1.15 V						
$I_R$	Maximum DC Reverse Current at Rated DC Blocking Voltage	$T_a = 25\text{ °C}$		$T_a = 125\text{ °C}$		10 $\mu\text{A}$ 250 $\mu\text{A}$		
$C_j$	Typical Junction Capacitance (1MHz; -4V)	60 pF						
$R_{th(j-l)}$ $R_{th(j-a)}$	Typical Thermal Resistance (5x5 mm <sup>2</sup> x 130 $\mu$ Copper Area)	13 °C/W		47 °C/W				
$T_j - T_{stg}$	Operating Junction and Storage Temperature Range	-55 to + 150 °C						

Rating And Characteristic Curves

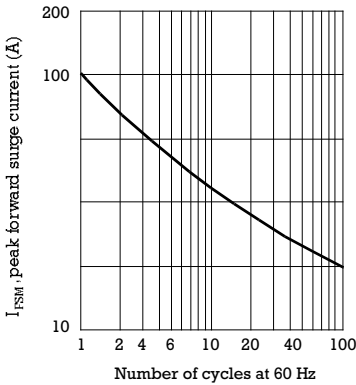
FORWARD CURRENT DERATING CURVE



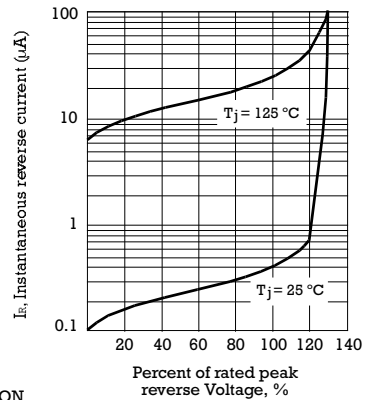
TYPICAL FORWARD CHARACTERISTIC



MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT



TYPICAL REVERSE CHARACTERISTIC



TYPICAL JUNCTION CAPACITANCE

