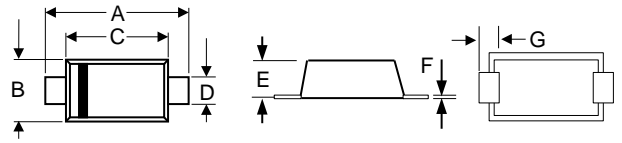


# R15AW THRU R15MW

## 1.5 Amp. Glass Passivated Rectifiers

### Features

- \* Low reverse leakage
- \* Easy pick and place
- \* High temp soldering: 260°C for 10 seconds at terminals
- \* Metallurgically bonded construction



**RoHS**  
COMPLIANT



DIM.	SOD-123F			
	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.138	0.154	3.50	3.90
B	0.067	0.075	1.70	1.90
C	0.102	0.114	2.60	2.90
D	0.031	0.043	0.80	1.10
E	0.035	0.045	0.88	1.15
F	0.004	0.008	0.10	0.20
G	0.028	0.035	0.70	0.90

### Mechanical Data

- \* Case: SOD-123F Molded plastic
- \* Terminals: Solderable per MIL-STD-750, Method 2026
- \* Polarity: Color band denotes cathode end □
- \* Mounting Position: Any □

### Maximum Ratings and Electrical Characteristics (T<sub>A</sub>=25°C unless otherwise noted)

Type Number	Symbols	R15AW	R15BW	R15DW	R15GW	R15JW	R15KW	R15MW	Unit
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum D.C Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current	I <sub>F(AV)</sub>	1.5							A
Peak Forward Surge Current, 8.3ms single half sine-wave	I <sub>FSM</sub>	50							A
Maximum Instantaneous Forward Voltage at 1.5A	V <sub>F</sub>	1.1							V
Maximum D.C Reverse Current @ T <sub>J</sub> =25°C	I <sub>R</sub>	5							μA
at Rated D.C Blocking Voltage @ T <sub>J</sub> =125°C		100							
Typical Junction Capacitance (Note1)	C <sub>J</sub>	30							pF
Typical Thermal Resistance (Note2)	R <sub>θJA</sub>	180							°C/W
Operating Junction Temperature Range	T <sub>J</sub>	-55 to +150							°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150							°C

Note 1: Measured at 1MHz and applied reverse voltage of 4.0V D.C.

Note 2: Thermal resistance from junction to ambient at 0.375" (9.5 mm) lead length, P.C.B. mounted

### Ratings and Characteristic Curves

FIG. 1- MAXIMUM FORWARD CURRENT DERATING CURVE

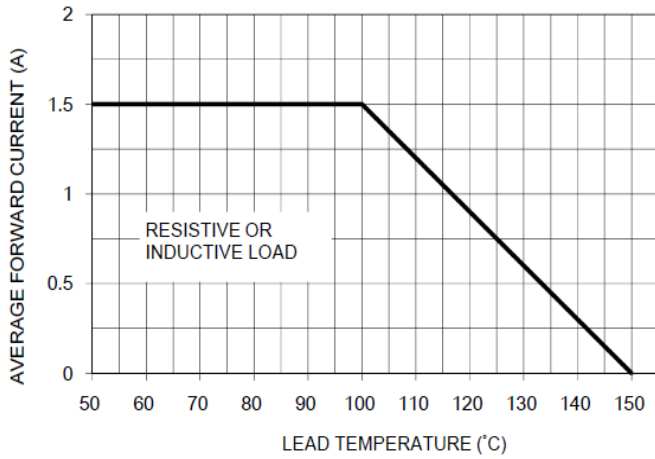


FIG. 2- TYPICAL REVERSE CHARACTERISTICS

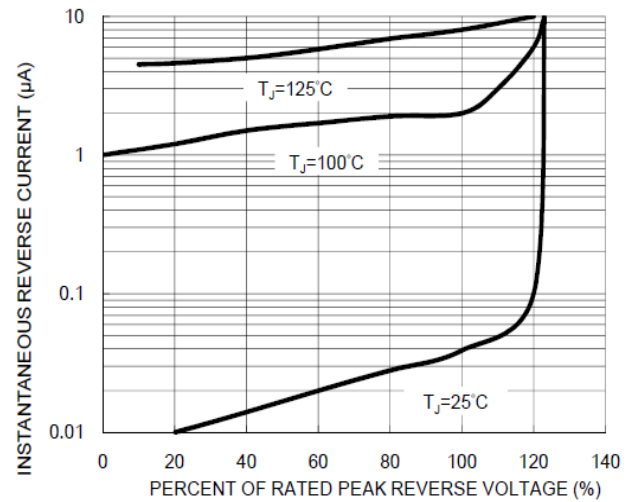


FIG. 3- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

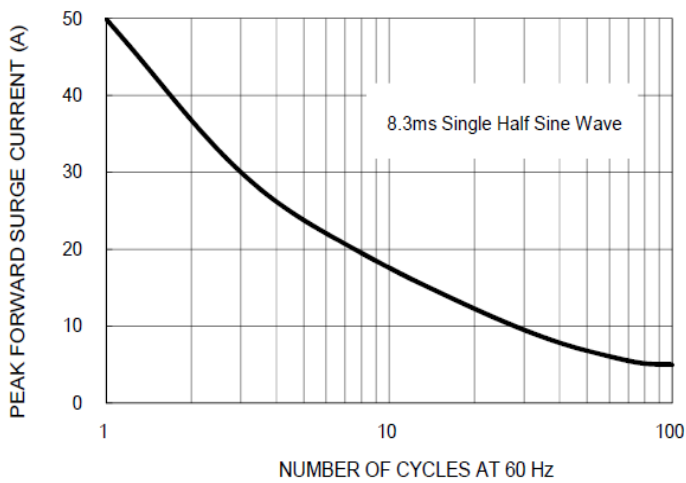


FIG. 4 TYPICAL FORWARD CHARACTERISTICS

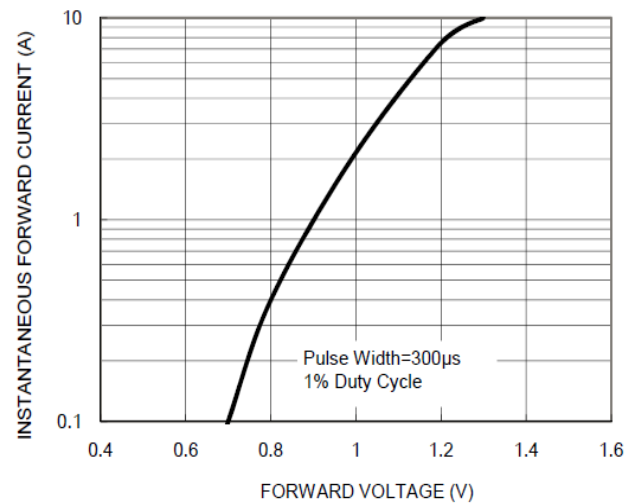
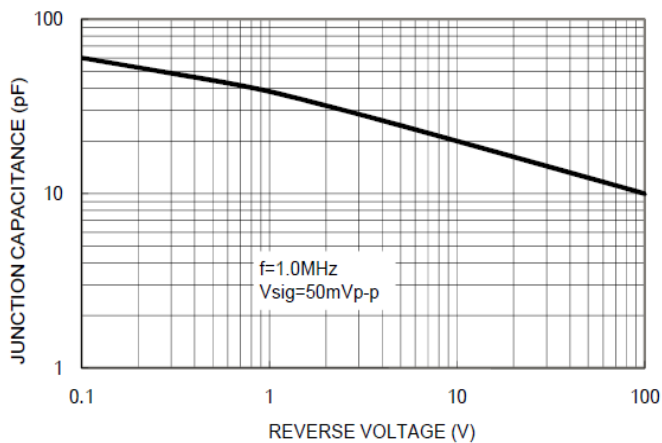


FIG. 5 TYPICAL JUNCTION CAPACITANCE





## R15AW THRU R15MW

### 1.5 Amp. Glass Passivated Rectifiers

#### Ordering Information

Part No.	Package	Packing Code	Packing
R15AW THRU R15MW	SOD-123F	R30	3000pcs/Reel

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