

# SEOA - SEOM

**PRV : 50 - 1000 Volts**  
**Io : 1.5 Amperes**

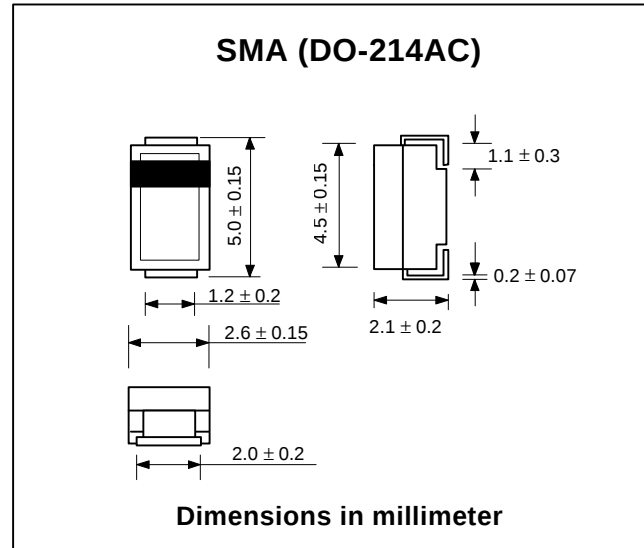
## FEATURES :

- \* High current capability
- \* High surge current capability
- \* High reliability
- \* Low reverse current
- \* Low forward voltage drop
- \* Fast switching for high efficiency
- \* Pb / RoHS Free

## MECHANICAL DATA :

- \* Case : SMA Molded plastic
- \* Epoxy : UL94V-O rate flame retardant
- \* Lead : Lead Formed for Surface Mount
- \* Polarity : Color band denotes cathode end
- \* Mounting position : Any
- \* Weight : 0.067 gram

# SURFACE MOUNT HIGH EFFICIENT RECTIFIERS



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.  
Single phase, half wave, 60 Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.

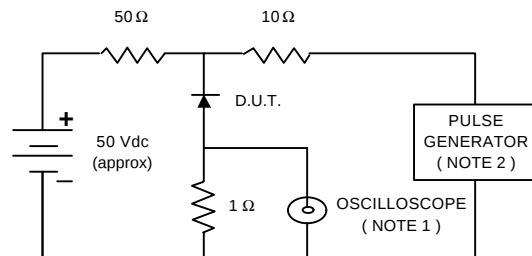
| RATING                                                                                                          | SYMBOL | SEOA          | SEOB | SEOD | SEOE | SEOG | SEOJ | SEOK | SEOM | UNIT |
|-----------------------------------------------------------------------------------------------------------------|--------|---------------|------|------|------|------|------|------|------|------|
| Maximum Recurrent Peak Reverse Voltage                                                                          | VRRM   | 50            | 100  | 200  | 300  | 400  | 600  | 800  | 1000 | V    |
| Maximum RMS Voltage                                                                                             | VRMS   | 35            | 70   | 140  | 210  | 280  | 420  | 560  | 700  | V    |
| Maximum DC Blocking Voltage                                                                                     | VDC    | 50            | 100  | 200  | 300  | 400  | 600  | 800  | 1000 | V    |
| Maximum Average Forward Current   Ta = 55 °C                                                                    | IF(AV) | 1.5           |      |      |      |      |      |      |      | A    |
| Maximum Peak Forward Surge Current,<br>8.3ms Single half sine wave superimposed<br>on rated load (JEDEC Method) | IFSM   | 60            |      |      |      |      |      |      |      | A    |
| Maximum Forward Voltage at IF = 1.5 A                                                                           | VF     | 1.1           |      |      |      |      | 1.7  |      |      | V    |
| Maximum DC Reverse Current       Ta = 25 °C<br>at Rated DC Blocking Voltage       Ta = 100 °C                   | IR     | 5             |      |      |      |      |      |      |      | μA   |
|                                                                                                                 | IR(H)  | 50            |      |      |      |      |      |      |      | μA   |
| Maximum Reverse Recovery Time ( Note 1 )                                                                        | Trr    | 50            |      |      |      |      | 75   |      |      | ns   |
| Typical Junction Capacitance ( Note 2 )                                                                         | CJ     | 50            |      |      |      |      |      |      |      | pf   |
| Junction Temperature Range                                                                                      | TJ     | - 65 to + 150 |      |      |      |      |      |      |      | °C   |
| Storage Temperature Range                                                                                       | TSTG   | - 65 to + 150 |      |      |      |      |      |      |      | °C   |

## Notes :

- ( 1 ) Reverse Recovery Test Conditions : IF = 0.5 A, IR = 1.0 A, Irr = 0.25 A.
- ( 2 ) Measured at 1.0 MHz and applied reverse voltage of 4.0 VDC

## RATING AND CHARACTERISTIC CURVES ( SEOA - SEOM )

FIG.1 - REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM



NOTES : 1. Rise Time = 7 ns max., Input Impedance = 1 megaohm, 22 pF.  
2. Rise time = 10 ns max., Source Impedance = 50 ohms.  
3. All Resistors = Non-inductive Types.

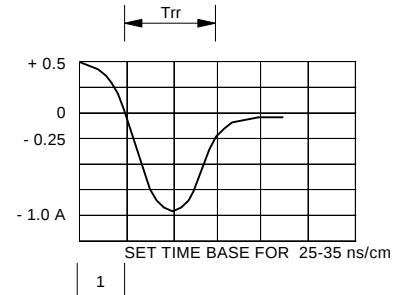


FIG.2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

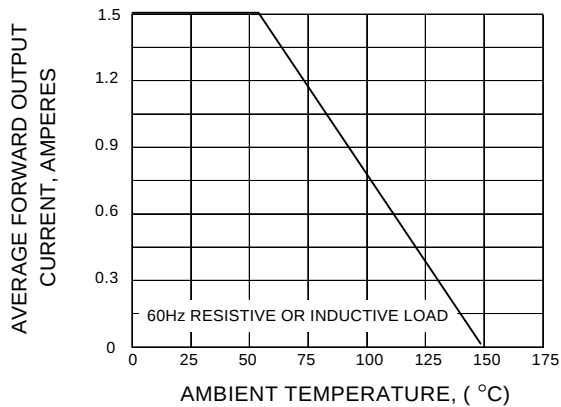


FIG.3 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

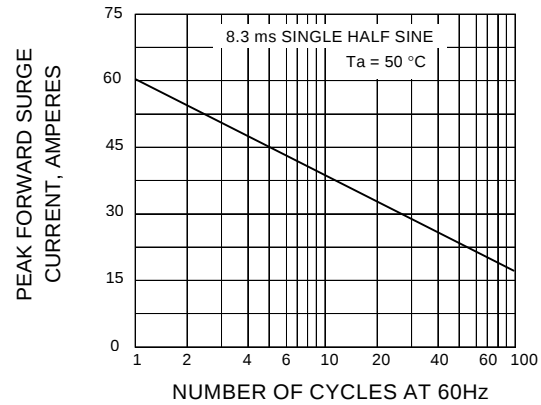


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

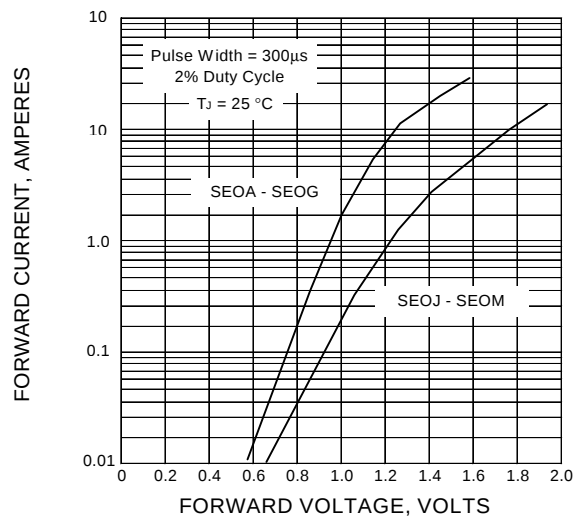
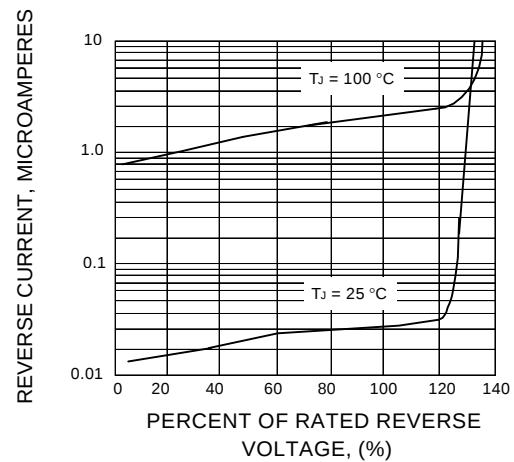


FIG.5 - TYPICAL REVERSE CHARACTERISTICS



单击下面可查看定价，库存，交付和生命周期等信息

[>>EIC](#)