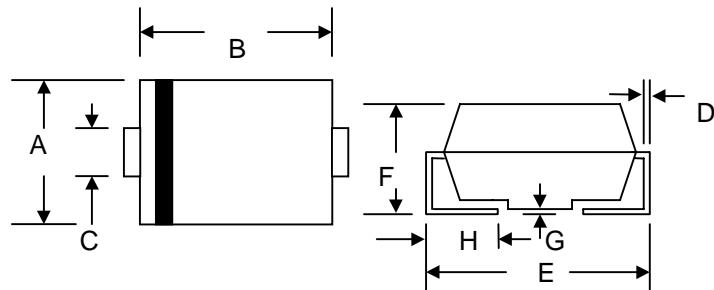


**Features**

- Glass Passivated Die Construction
- Ideally Suited for Automatic Assembly
- Low Forward Voltage Drop, High Efficiency
- Surge Overload Rating to 100A Peak
- Low Power Loss
- Super-Fast Recovery Time
- Plastic Case Material has UL Flammability Classification Rating 94V-O


**Mechanical Data**

- Case: Low Profile Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.21 grams (approx.)

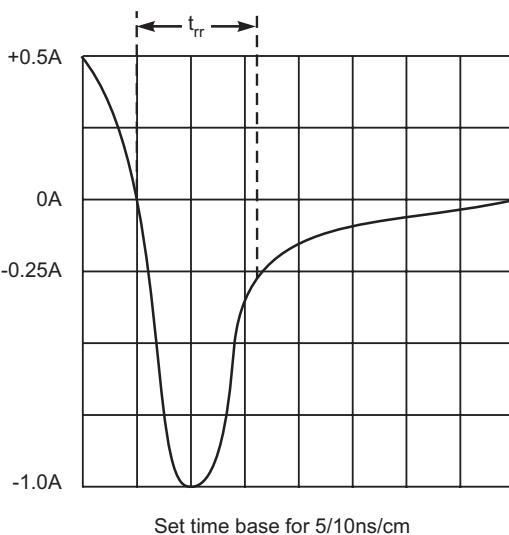
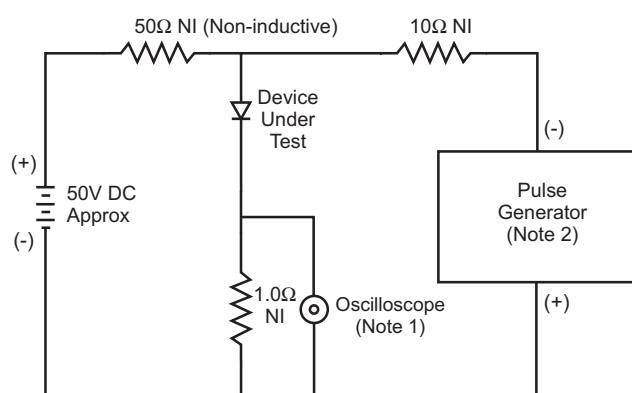
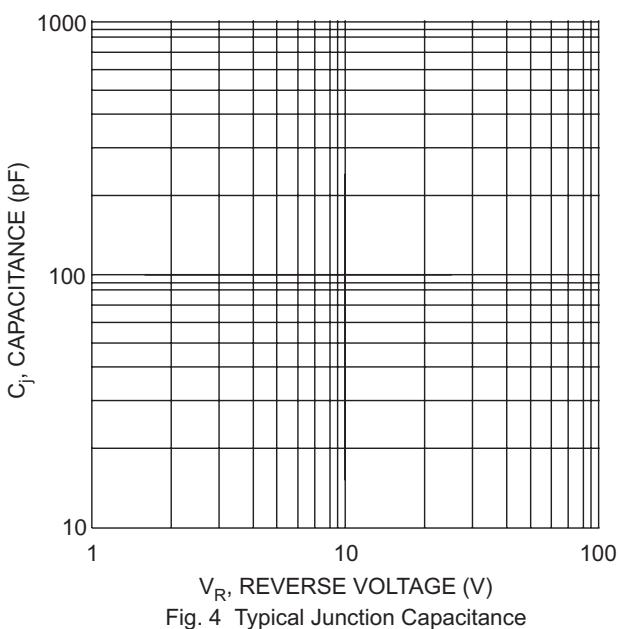
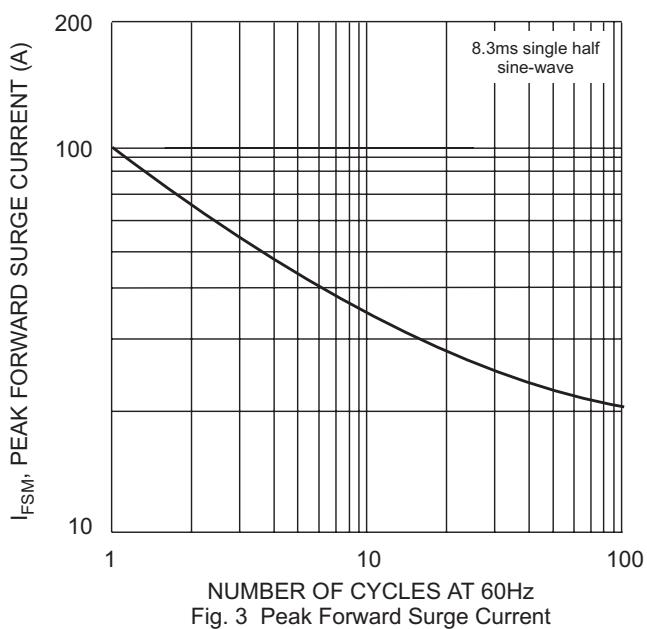
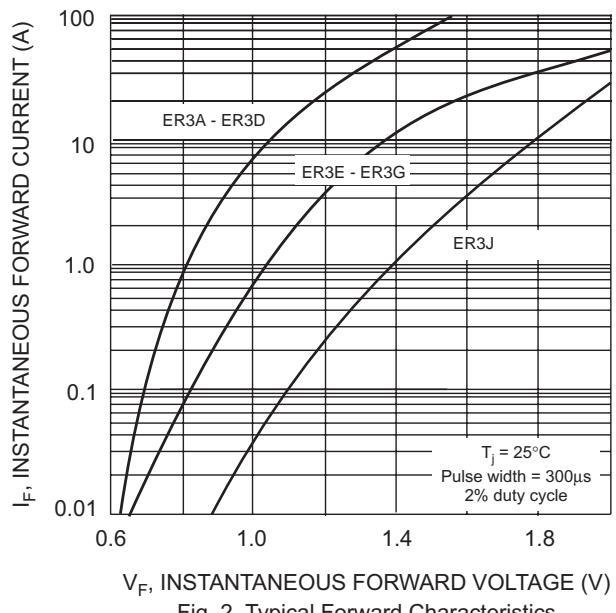
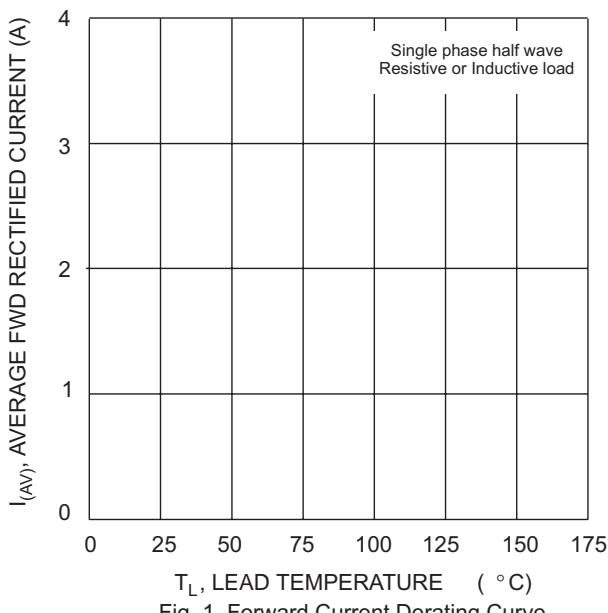
SMC/DO-214AB		
Dim	Min	Max
A	5.59	6.22
B	6.60	7.11
C	2.75	3.25
D	0.152	0.305
E	7.75	8.13
F	2.00	2.62
G	0.051	0.203
H	0.76	1.27

All Dimensions in mm

**Maximum Ratings and Electrical Characteristics** @ $T_A=25^\circ\text{C}$  unless otherwise specified

Characteristic	Symbol	ER3A	ER3B	ER3C	ER3D	ER3E	ER3G	ER3J	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	50	100	150	200	300	400	600	V
RMS Reverse Voltage	V <sub>R(RMS)</sub>	35	70	105	140	210	280	420	V
Average Rectified Output Current @ $T_L = 75^\circ\text{C}$	I <sub>o</sub>				3.0				A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>				100				A
Forward Voltage @ $I_F = 3.0\text{A}$	V <sub>FM</sub>			0.95		1.25		1.7	V
Peak Reverse Current @ $T_A = 25^\circ\text{C}$ At Rated DC Blocking Voltage @ $T_A = 100^\circ\text{C}$	I <sub>RM</sub>				5.0				$\mu\text{A}$
					500				
Reverse Recovery Time (Note 1)	t <sub>rr</sub>				35				nS
Typical Junction Capacitance (Note 2)	C <sub>j</sub>			45					pF
Typical Thermal Resistance (Note 3)	R <sub>θJL</sub>			16					K/W
Operating and Storage Temperature Range	T <sub>j</sub> , T <sub>STG</sub>			-65 to +150					°C

Note: 1. Measured with  $I_F = 0.5\text{A}$ ,  $I_R = 1.0\text{A}$ ,  $I_{rr} = 0.25\text{A}$ ,  
 2. Measured at 1.0 MHz and applied reverse voltage of 4.0 V DC.  
 3. Mounted on P.C. Board with 8.0mm<sup>2</sup> land area.



## ORDERING INFORMATION

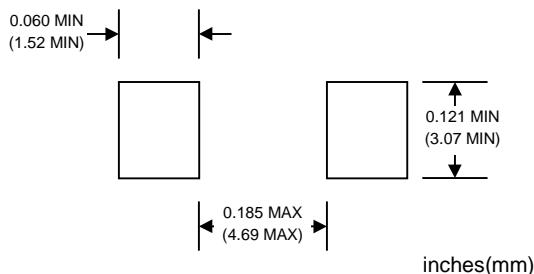
Product No.♦	Package Type	Shipping Quantity
ER3A-T1	SMC	500/Tape & Reel
<b>ER3A-T3</b>	SMC	3000/Tape & Reel
ER3B-T1	SMC	500/Tape & Reel
<b>ER3B-T3</b>	SMC	3000/Tape & Reel
ER3C-T1	SMC	500/Tape & Reel
<b>ER3C-T3</b>	SMC	3000/Tape & Reel
ER3D-T1	SMC	500/Tape & Reel
<b>ER3D-T3</b>	SMC	3000/Tape & Reel
ER3E-T1	SMC	500/Tape & Reel
<b>ER3E-T3</b>	SMC	3000/Tape & Reel
ER3G-T1	SMC	500/Tape & Reel
<b>ER3G-T3</b>	SMC	3000/Tape & Reel
ER3J-T1	SMC	500/Tape & Reel
<b>ER3J-T3</b>	SMC	3000/Tape & Reel

Products listed in **bold** are WTE Preferred devices.

♦T1 suffix refers to a 7" reel. T3 suffix refers to a 13" reel.

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

## RECOMMENDED FOOTPRINT



Won-Top Electronics Co., Ltd (WTE) has checked all information carefully and believes it to be correct and accurate. However, WTE cannot assume any responsibility for inaccuracies. Furthermore, this information does not give the purchaser of semiconductor devices any license under patent rights to manufacturer. WTE reserves the right to change any or all information herein without further notice.

**WARNING:** DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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**Email:** sales@wontop.com

**Internet:** <http://www.wontop.com>

*We power your everyday.*