

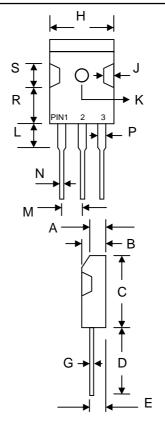
# **30A DUAL SCHOTTKY BARRIER RECTIFIER**

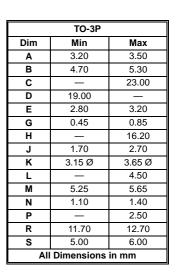
## Features

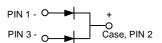
- Schottky Barrier Chip
- Guard Ring for Transient Protection
- Low Forward Voltage Drop
- Low Reverse Leakage Current
- High Surge Current Capability
- Plastic Material has UL Flammability Classification 94V-O

#### **Mechanical Data**

- Case: TO-3P, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-750, Method 2026
- Polarity: See Diagram
- Weight: 5.6 grams (approx.)
- Mounting Position: Any
- Mounting Torque: 11.5 cm-kg (10 in-lbs) Max.
- Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4







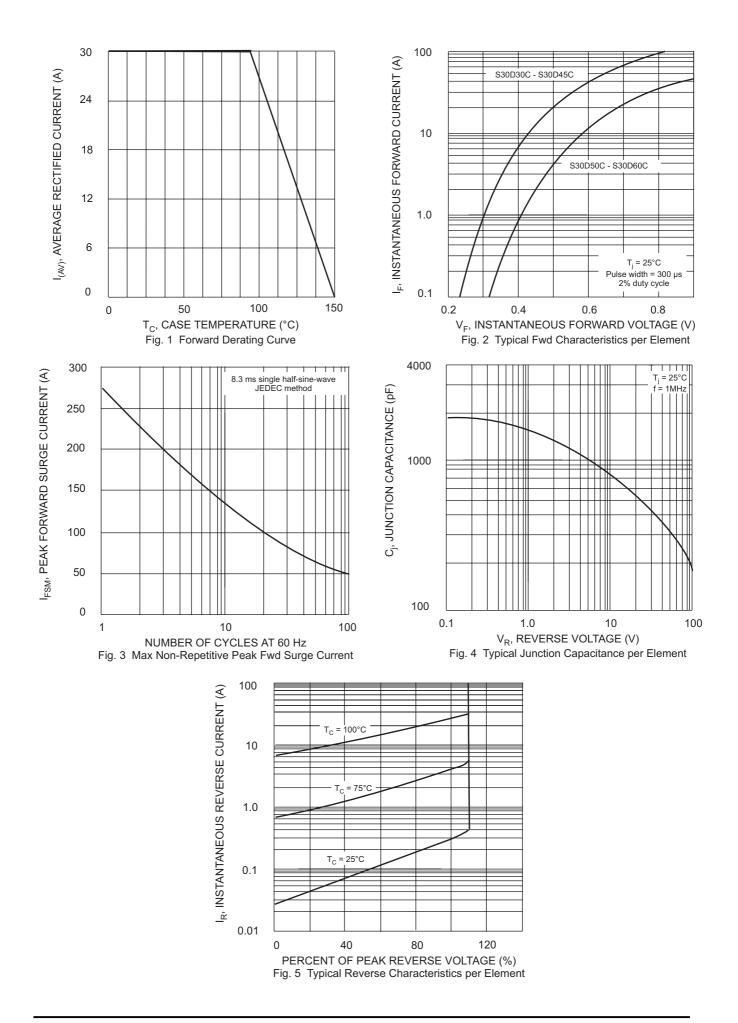
# Maximum Ratings and Electrical Characteristics @T<sub>A</sub>=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	S30D 30C	S30D 35C	S30D 40C	S30D 45C	S30D 50C	S30D 60C	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	30	35	40	45	50	60	V
RMS Reverse Voltage	VR(RMS)	21	25	28	32	35	42	V
Average Rectified Output Current $@T_c = 95^{\circ}C$	ю	30					А	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	275						A
Forward Voltage @I <sub>F</sub> = 15A	Vfм	0.55 0.65		65	V			
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	Iгм	1.0 60			mA			
Typical Junction Capacitance (Note 1)	Cj	1100					pF	
Typical Thermal Resistance Junction to Case (Note 2)	R	1.4					°C/W	
Operating and Storage Temperature Range	Тј, Тѕтс	-65 to +150					°C	

Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

2. Thermal resistance junction to case mounted on heatsink.



## MARKING INFORMATION



S30DxxC = Device Number = 30, 35, 40, 45, 50 or 60 Polarity = As Marked on Body

# **PACKAGING INFORMATION**

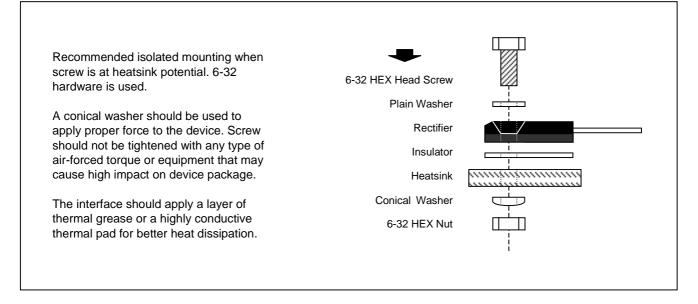
#### BULK

Tube Size	Quantity	Inner Box Size	Quantity	Carton Size	Quantity	Approx. Gross Weight
L x W x H (mm)	(PCS)	L x W x H (mm)	(PCS)	L x W x H (mm)	(PCS)	(KG)
505 x 46 x 6.5	30	520 x 145 x 95	1,200	540 x 306 x 115	2,400	18.0

хх

Note: 1. Anti-static tube, water clear color.

# **RECOMMENDED SCREW MOUNTING ARRANGEMENT**



#### **ORDERING INFORMATION**

Product No.	Package Type	Shipping Quantity
S30D30C	TO-3P	30 Units/Tube
S30D35C	TO-3P	30 Units/Tube
S30D40C	TO-3P	30 Units/Tube
S30D45C	TO-3P	30 Units/Tube
S30D50C	TO-3P	30 Units/Tube
S30D60C	TO-3P	30 Units/Tube

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

2. To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, S30D30C-LF.

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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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