

U30D05C − U30D60C Rohs



30A GLASS PASSIVATED DUAL SUPEFAST RECTIFIER

Features

- Glass Passivated Die Construction
- Super-Fast Switching
- 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

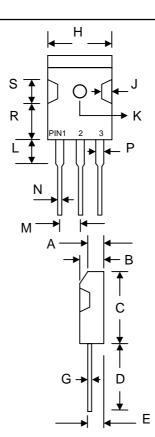
Polarity: See Diagram

Weight: 5.6 grams (approx.)

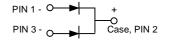
Mounting Position: Any

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



TO-3P					
Dim	Min	Max			
Α	3.20	3.50			
В	4.70	5.30			
С	_	23.00			
D	19.00	_			
Е	2.80	3.20			
G	0.45	0.85			
Н		16.20			
J	1.70	2.70			
K	3.15 Ø	3.65 Ø			
L	_	4.50			
М	5.25	5.65			
N	1.10	1.40			
Р		2.50			
R	11.70	12.70			
S	5.00	6.00			
All	All Dimensions in mm				



Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

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

Characteristic	Symbol	U30D 05C	U30D 10C	U30D 15C	U30D 20C	U30D 30C	U30D 40C	U30D 50C	U30D 60C	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	150	200	300	400	500	600	V
RMS Reverse Voltage	VR(RMS)	35	70	105	140	210	280	350	420	V
Average Rectified Output Current @T _C = 100°C	lo	30						Α		
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	300						А		
Forward Voltage @I _F = 15A	VFM	0.975 1.3 1.7			.7	V				
	lгм	10 500				μA				
Reverse Recovery Time (Note 1)	trr	35 50				nS				
Typical Junction Capacitance (Note 2)	Cj	150 100			00	pF				
Operating and Storage Temperature Range	Тj, Tsтg	-55 to +150					°C			

Note: 1. Measured with IF = 0.5A, IR = 1.0A, IRR = 0.25A. See figure 5.

2. Measured at 1.0 MHz and applied reverse voltage of 4.0 V D.C.

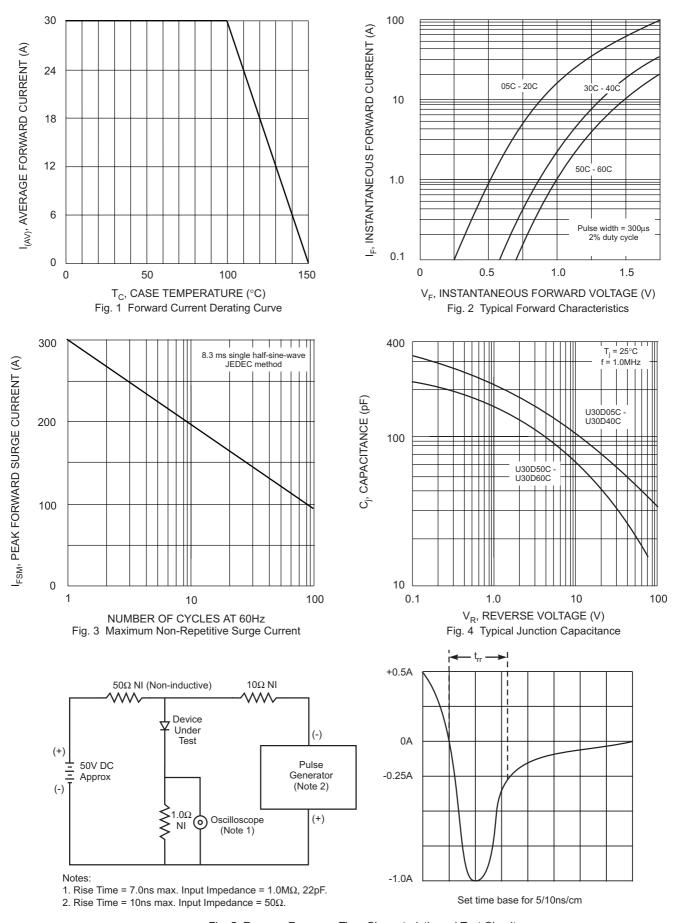
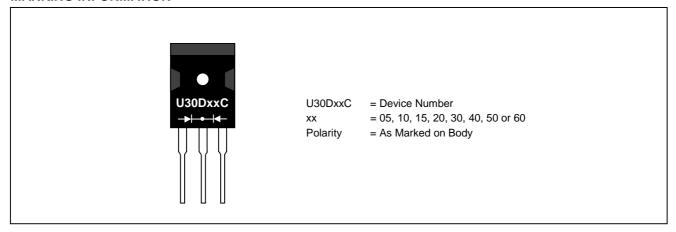


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

MARKING INFORMATION



PACKAGING INFORMATION

BULK

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

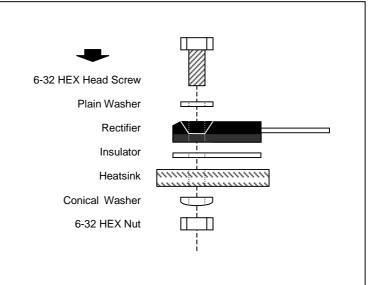
Note: 1. Anti-static tube, water clear color.

RECOMMENDED SCREW MOUNTING ARRANGEMENT

Recommended isolated mounting when screw is at heatsink potential. 6-32 hardware is used.

A conical washer should be used to apply proper force to the device. Screw should not be tightened with any type of air-forced torque or equipment that may cause high impact on device package.

The interface should apply a layer of thermal grease or a highly conductive thermal pad for better heat dissipation.



ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
U30D05C	TO-3P	30 Units/Tube
U30D10C	TO-3P	30 Units/Tube
U30D15C	TO-3P	30 Units/Tube
U30D20C	TO-3P	30 Units/Tube
U30D30C	TO-3P	30 Units/Tube
U30D40C	TO-3P	30 Units/Tube
U30D50C	TO-3P	30 Units/Tube
U30D60C	TO-3P	30 Units/Tube

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

 To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, U30D05C-LF. 2.

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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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