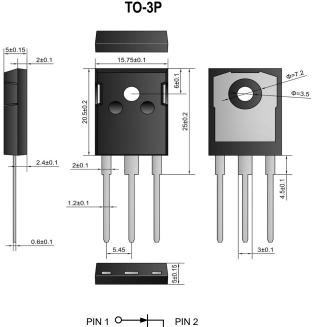
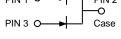
Features

- Glass Passivated Die Construction
- Superfast 35nS and 50nS Recovery Time
- Low Forward Voltage Drop
- Low Reverse Leakage Current
- High Surge Current Capability
- Epoxy Meets UL 94V-0 Classification
- Ideally Suited for Use in High Frequency SMPS, Inverters and As Free Wheeling Diodes

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: 1.2 N.m Max.





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

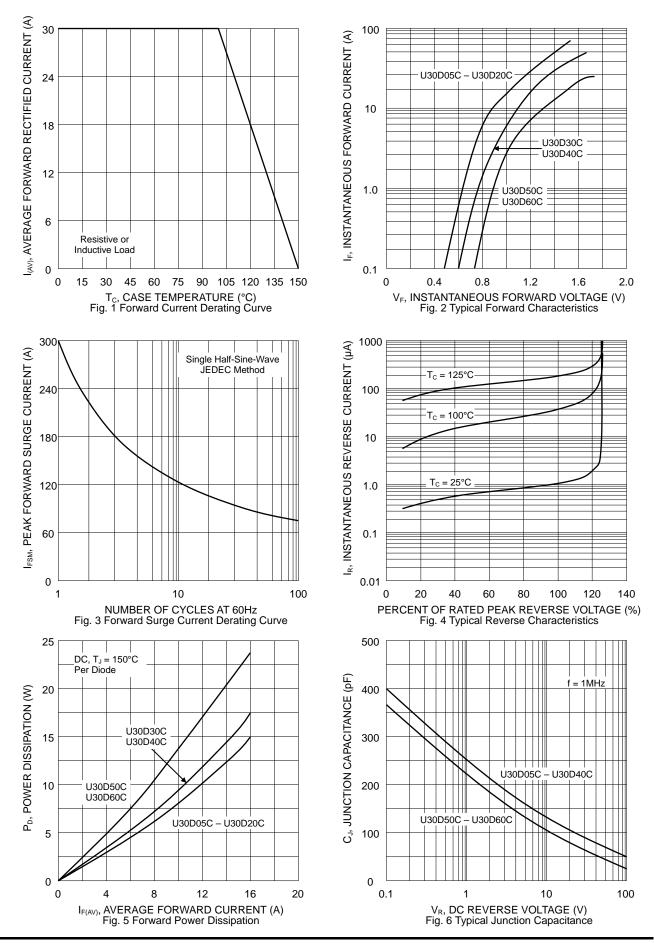
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	U30D 05C	U30D 10C	U30D 15C	U30D 20C	U30D 30C	U30D 40C	U30D 50D	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 CurrentTotal Device $@T_c = 100^{\circ}C$ Per Diode	lo	30 15						А		
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM	300						A		
Forward Voltage per diode $@I_F = 15A$	Vfm	0.975 1.3 1			.7	V				
Peak Reverse Current $@T_c = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_c = 100^{\circ}C$	lгм	10 500 μΑ							μA	
Reverse Recovery Time (Note 1)	trr	35 50				nS				
Typical Junction Capacitance (Note 2)	CJ	175 145					pF			
Thermal Resistance Junction to Ambient per diode Thermal Resistance Junction to Case per diode	R JA R JC	40 1.5						°C/W		
Operating and Storage Temperature Range	TJ, TSTG	-55 to +150					°C			

Note: 1. Measured with $I_F = 0.5A$, $I_R = 1.0A$, $I_{RR} = 0.25A$. 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.



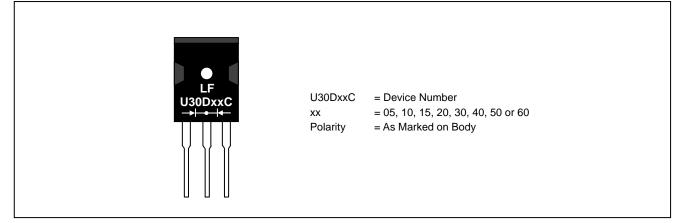
<u>U30D05C – U30D60C</u>



Likun Micro-electroncs Technology Co.,LTD

web:www.lf-diode.com

MARKING INFORMATION



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

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

RECOMMENDED SCREW MOUNTING ARRANGEMENT

