

JTM30U05

LOW V_F TRENCH SCHOTTKY

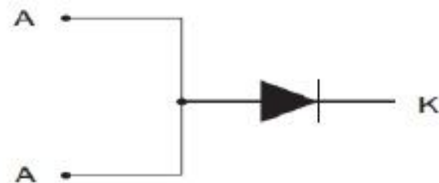
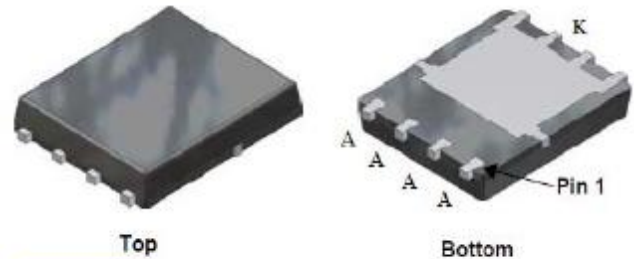
■ FEATURES

- Ultra Low Forward Voltage(V_F)
- High Forward Surge Capability
- High Efficiency Operation
- Compliant to RoHS
- Halogen Free

■ Application

- Power Supply

■ PIN DESCRIPTION



Absolute Maximum Ratings ($T_A=25^\circ\text{C}$ unless otherwise noted)

PARAMETERS/TEST CONDITIONS	SYMBOL	LIMITS	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	50	V
Maximum average forward rectified current	I_F	30	A
Peak forward surge current 10mS single half sine-wave superimposed on rated load	I_{DM}	200	A
Operating junction and storage temperature rang	T_J, T_{STG}	-40 to +150	$^\circ\text{C}$

Thermal Characteristics

Symbol	Parameter	Typical	Unit
$R_{\theta jc}$	Thermal Resistance-Junction to Case	2.5	$^\circ\text{C/W}$

JTM30U05

LOW V_F TRENCH SCHOTTKY

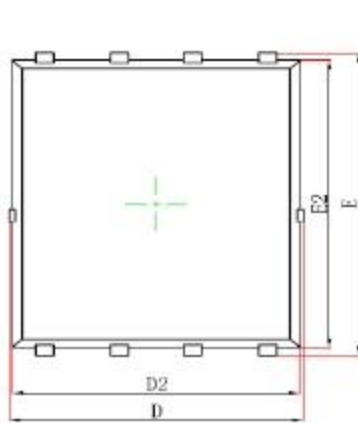
			MIN	TYP	MAX	
Breakdown Voltage	V_{BR}	$I_R = 0.3 \text{ mA}$	50			V
Instantaneous forward voltage	V_F	$I_F = 15\text{A}, T_A = 25^\circ\text{C}$		0.5	0.54	V
		$I_F = 30\text{A}, T_A = 25^\circ\text{C}$		0.58	0.64	
		$I_F = 30\text{A}, T_A = 125^\circ\text{C}$			0.56	
Reverse current	I_R	$V_R = 50\text{V}, T_A = 25^\circ\text{C}$			50	μA
		$V_R = 50\text{V}, T_A = 125^\circ\text{C}$			80	mA

Package Outline

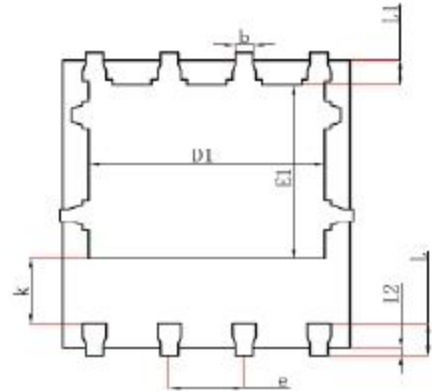
JTM30U05

LOW V_F TRENCH SCHOTTKY

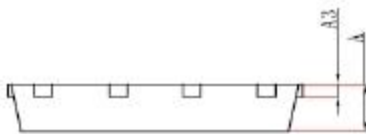
PDFNWB5×6-8L (P1.27T0.95) PACKAGE OUTLINE DIMENSIONS



Top View
[顶视图]



Bottom View
[底视图]



Side View
[侧视图]

Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	0.900	1.000	0.035	0.039
A3	0.254REF.		0.010REF.	
D	4.944	5.096	0.195	0.201
E	5.974	6.126	0.235	0.241
D1	3.910	4.110	0.154	0.162
E1	3.375	3.575	0.133	0.141
D2	4.824	4.976	0.190	0.196
E2	5.674	5.826	0.223	0.229
k	1.190	1.390	0.047	0.055
b	0.250	0.350	0.010	0.014
e	1.270TYP.		0.050TYP.	
L	0.559	0.711	0.022	0.028
L1	0.424	0.576	0.017	0.023
L2	0.100	0.200	0.004	0.008