

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

FEATURES

- · Very low profile package
- High efficiency
- Extremely fast switching
- Negligible switching losses
- · Low forward voltage drop, low power loss
- Meet IEC-61000-4-2 standard, level 4

MECHANICAL DATA

- Case: JEDEC DO-221AC
- Case Material: "Green" molding compound, UL flammability classification 94V-0, (No Br. Sb. Cl.) "Halogen-free"
- Moisture Sensitivity: Level 1 per J-STD-020C
- Terminals: Lead Free Plating (Matte Tin Finish.)
- Component in accordance to RoHs 2002/95/EC
- Marking code: 3A45D

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

ABSOLUTE RATINGS

PARAMETER		SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage		V _{RRM}	45	V
Maximum DC blocking voltage		V _{DC}	45	V
Average rectified output current @T _c =100°C		I _(AV)	3.0	А
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load.		I _{FSM}	50	А
Peak repetitive surge current (Square Wave 50kHz, Duty 10%, TC=100°C))		I _{FRM}	6	А
Operating junction temperature range		TJ	-55 to +150	°C
Storage temperature range		T _{STG}	-55 to +150	°C

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST C	ONDITIONS	SYMBOL	МАХ	UNIT
Forward voltage (Note1)	IF=3.0A	TJ=25°C TJ =125°C	V _F	0.48 0.4	V
Leakage current (Note1)	VR= 45V	T _J =25°C T _J =125°C	I _R	0.5 100	mA
Typical junction capacitance (Note2)			CJ	265	pF

THERMAL CHARACTERISTICS

THERMAL CHARACTERISTIC	SYMBOL	TYP.	UNIT
Typical thermal resistance (Note3)	RthJ _C RthJ∟ RthJ₄	18 23 88	°C/W
Note :		REV. 3, SEP20	14, KSHP21

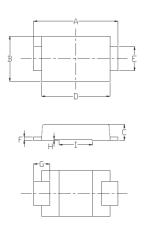
(1) 300us pulse width, 2% duty cycle.

(2) Measured at 1.0MHz and applied voltage of 4.0VDC.

(3) Thermal resistance test performed in accordance with JESD-51. Unit mounted on glass-epoxy substrate with 1oz/ft²_5mmx7mm copper pad.



F3-D



F3-D					
DIM.	MIN.	TYP.	MAX		
Α	4.80	5.20	5.60		
в	2.25	2.80	2.95		
С	0.90	1.00	1.10		
D	3.95	4.20	4.60		
Е	1.25	1.50	1.65		
F	0.15	0.20	0.40		
G	0.75	1.00	1.50		
Н	0.025	0.05	0.075		
I	1.90	2.05	2.20		
All dimension in millimeter					

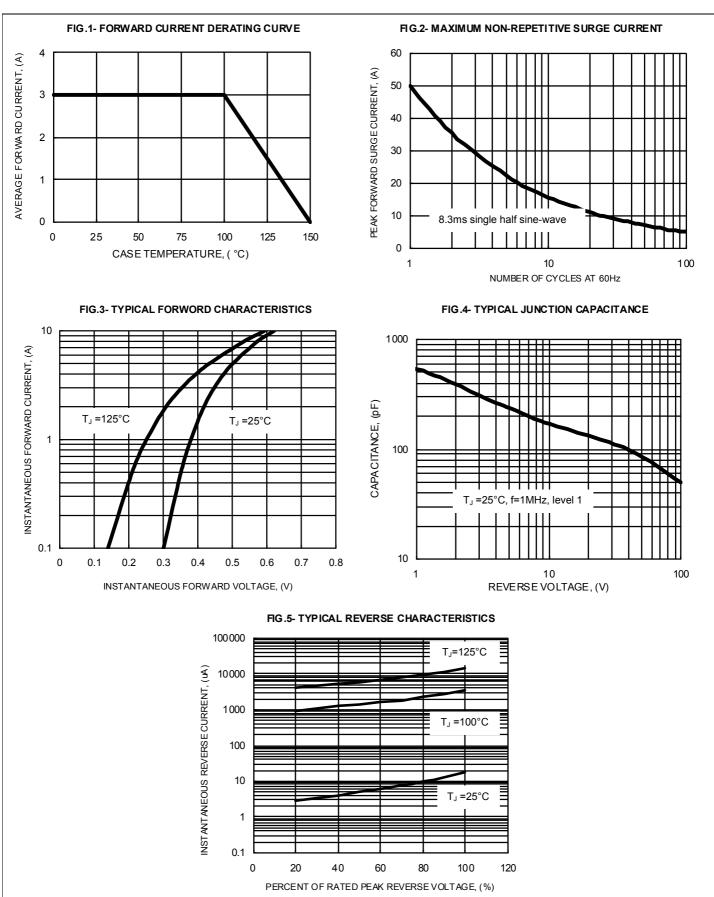
NEV. 5, 6E1 .-2014, N

Downloaded from Arrow.com.

FB3A45D

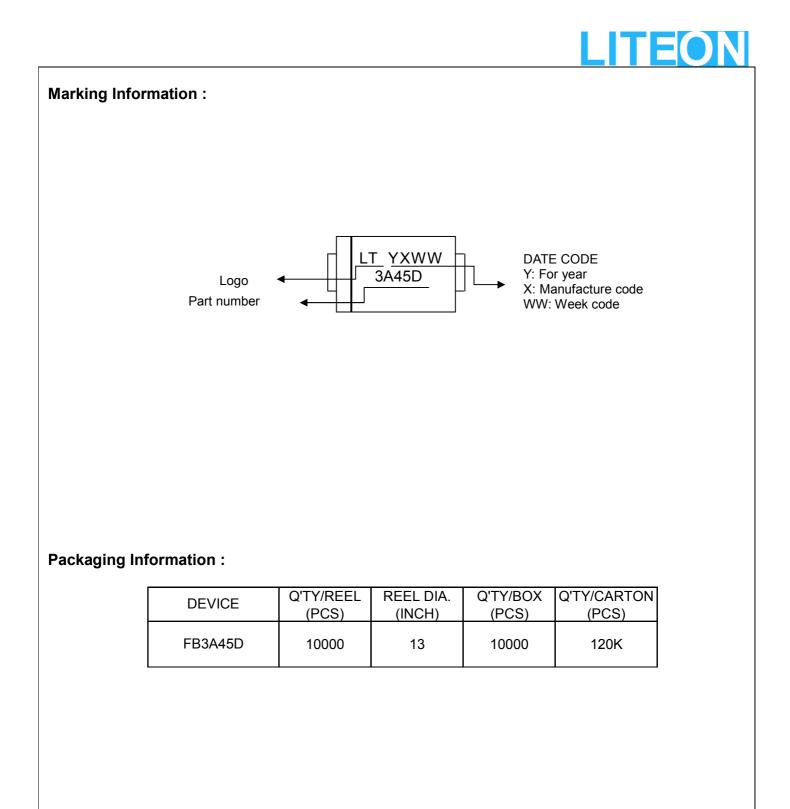
RATING AND CHARACTERISTIC CURVES FB3A45D





MARKING AND PACKAGING INFORMATION FB345D





LEGAL DISCLAIMER NOTICE



Important Notice and Disclaimer

LSC reserves the right to make changes to this document and its products and specifications at any time without notice. Customers should obtain and confirm the latest product information and specifications before final design, purchase or use.

LSC makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does LSC assume any liability for application assistance or customer product design. LSC does not warrant or accept any liability with products which are purchased or used for any unintended or unauthorized application.

No license is granted by implication or otherwise under any intellectual property rights of LSC.

LSC products are not authorized for use as critical components in life support devices or systems without express written approval of LSC.