

MK4045

Typical Applications/
Photovoltaic solar cell protection schottky rectifier/

- Mechanical Data/**
- **Package/** : GF030S
 - Molding compound meets UL 94 V-0 flammability rating / UL 94 V-0
 - **Terminals/** : Tin plated leads, solderable per J-STD-002 and JESD 22-B102 J-STD-002 JESD 22-B102
 - **Polarity/** : As marked/

■Maximum Ratings (Ta=25 Unless otherwise specified / ()			
PARAMETER	SYMBOL	UNIT	MK4045
Device marking code			MK4045
Repetitive Peak Reverse Voltage	VRRM	V	45
Average Rectified Output Current @60Hz half sine-wave, R-load, Ta=25	Io	A	40
Surge(Non-repetitive)Forward Current@60Hz half sine-wave, 1 cycle, Ta=25	IFSM	A	350
Current Squared Time @1ms≤t<8.3ms Tj=25	I²t	A²s	505
Storage Temperature	Tstg		-55 ~+150
Junction Temperature/ IN DC Forward Mode-Forward Operations without reverse bias, t ≤1 h (Fig. 1)	Tj		-55 ~+200

NOTE (1) Meets the requirements of IEC 61215 Ed. 2 bypass diode thermal test.
1 IEC 61215 ED.2 .

■Electrical Characteristics Ta=25 Unless otherwise specified / (Ta=25)				
PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MK4045
Maximum instantaneous forward voltage drop per diode	VFM	V	IF=40.0A	0.55
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM1	mA	VRM=VRRM =25	0.1
	IRRM2		VRM=VRRM =100	9.0
	IRRM3		VRM=VRRM =125	

•long term reliability/



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■Thermal Characteristics Ta=25 Unless otherwise specified / (Ta=25)

PARAMETER	SYMBOL	UNIT	MK4045
Thermal Resistance 1	RθJ-C	/W	1.0

Note (1) Thermal resistance from Between junction and case, On glass-epoxi substrate.
(1) (1) Pn

■Ordering Information (Example) / ()

PREFERED P/N	UNIT WEIGHT(g) ()	MINIIMUM PACKAGE(pcs) ()	OUTER CARTON QUANTITY(pcs) ()	DELIVERY MODE
MK4045	Approximate 5.5 5.5 /	30	1500	Tube

■Characteristics (Typical) / ()

A`0-'' 0 2 0 2 0 0 € , R2 Ve 0 2 0 62 0 2 0 2 0 fV'' xu'' => 5(fP'' , 2 #R, Ve 2 #R, Ve 2 :

Average Forward Output Current (A)
()

