

Micro Commercial Components



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KA3

Features

- For General Purpose Switching Applications
- Halogen free available upon request by adding suffix "-HF"
- Lead Free Finish/Rohs Compliant ("P"Suffix designates
- RoHS Compliant. See ordering information)
- Ultra-Small Surface Mount Package
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- High Conductance, Power Dissipation
- Fast Switching Speed

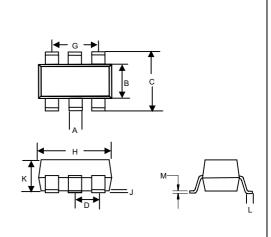
Maximum Ratings

Symbol	Rating	Rating	Unit	
V _{RM}	Non-Repetitive Peak Reverse Voltage	100	V	
V _{RRM}	Peak Repetitive Reverse Voltage			
V _{RWM}	Working Peak Reverse Voltage	75 V		
V _R	DC Blocking Voltage			
V _{R(RMS)}	RMS Reverse Voltage	53	V	
I _{FM}	Forward Continuous Current	500	mA	
lo	Average Rectified Output Current	250	mA	
i i	Peak Forward Surge Current @1.0 µ s	4.0	٨	
FSM	@1.0s	2.0	A	
R _{0JA}	Thermal Resistance Junction to Ambient	625	°C/W	
PD	Power dissipation	200	mW	
TJ	Junction Temperature	150	°C	
T _{STG}	Storage Temperature	-65 to +150	°C	

200mW Switching Diodes

SOT-363

MMBD4448DW



Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Test Conditions	
V _(BR)	Reverse Breakdown Voltage	75V		I _R =10 μ A	
I _R	Reverse Voltage Leakage Current		2.5 µ А 50 µ А	V _R =75V V _R =75V. T₁=150°C	
			35 μ A	V _R =25V, T _J =150°C	
			25nA	V _R =20V	
V _F	Forward Voltage	0.6	0.72V	I _F =5.0mA	
			0.855V	I _F =10mA	
			1.0V	I _F =50mA	
			1.25V	I _F =150mA	
CT	Total Capacitance		4.0pF	V _R =0V, f=1MHZ	
t _{rr}	Reverse Recovery Time		4.0ns	I _R ==I _F =10mA, Irr=0.1xI _R , R _L =100 Ω	

DIMENSIONS					
	INCHES		ММ		
DIM	MIN	MAX	MIN	MAX	NOTE
А	.006	.014	0.15	0.35	
В	.045	.053	1.15	1.35	
С	.085	.096	2.15	2.45	
D	.02	6	0.65N	ominal	
G	.047	.055	1.20	1.40	
Н	.071	.087	1.80	2.20	
J		.004		0.10	
К	.035	.043	0.90	1.10	
L	.010	.018	0.26	0.46	
М	.003	.006	0.08	0.15	

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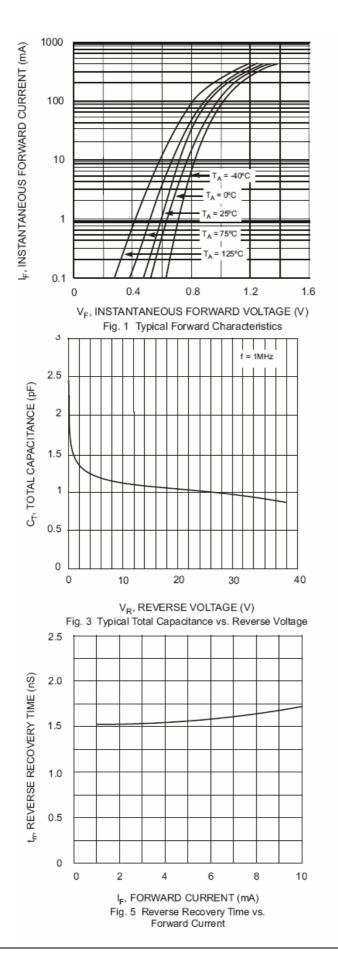
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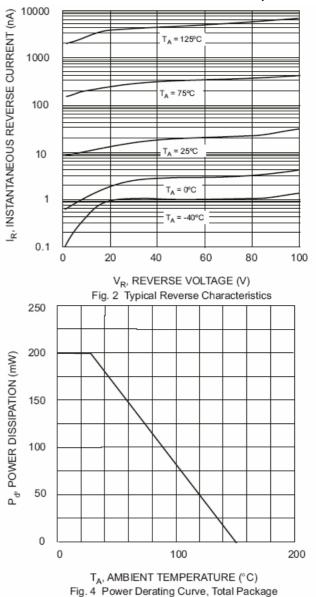
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Ordering Information :

Device	Packing	
Part Number-TP	Tape&Reel: 3Kpcs/Reel	

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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