

Schottky Barrier Rectifiers

R-1



Primary characteristics						
I _{F(AV)}	1A					
V_{RRM}	20V to 60V					
I _{FSM}	40A					
I _{RM}	0.5mA					
V _{FM} at I _F =1A	0.55/0.7V					
T _J max.	150 °C					
I _{RM} V _{FM} at I _F =1A	0.5mA 0.55/0.7V					

Features

- Metal-Semiconductor junction with guardring
- Epitaxial construction
- Low forward voltage drop
- High current capability
- Moisture sensitivity: level 1, per J-STD-020
- AEC-Q101 qualified
- High temperature soldering guaranteed: 260°C/10 seconds
- Halogen-free according to IEC 61249-2-21 definition

Applications

For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

Mechanical data

- R-1
- Epoxy meets UL 94 V-0 flammability rating
- Terminals: Tin plated leads.
- Polarity: As marked.

Maximum rating (Ta=25°Cunless otherwise noted)									
Parameter		Sym	R-1					l lmi4	
			1K2	1K3	1K4	1K5	1K6	Unit	
Max. repetitive peak reverse voltage		V_{RRM}	20	30	40	50	60	V	
Max. RMS reverse voltage		V _{RMS}	14	21	28	35	42	V	
Max. DC blocking voltage		V _{DC}	20	30	40	50	60	V	
Max. average forward current		I _{F(AV)}	1					Α	
Non-repetitive peak forward surge current		I _{FSM}	40					Α	
8.3ms single half-sine-wave									
Max. instantaneous forward voltage drop per diode		V _{FM}	0.55 0.7			7	V		
Max. instantaneous reverse current	Ta=25 °C	0.5					mA		
at rated DC blocking voltage	Ta=125 °C	I _{RM}	10						
Operating junction temperature		TJ	-55 ~ + 150					°C	
Storage temperature		Tstg	-55 ~ +150					°C	
Typical thermal resistance (Note1)		R _{OJ-A}	50				°C/W		

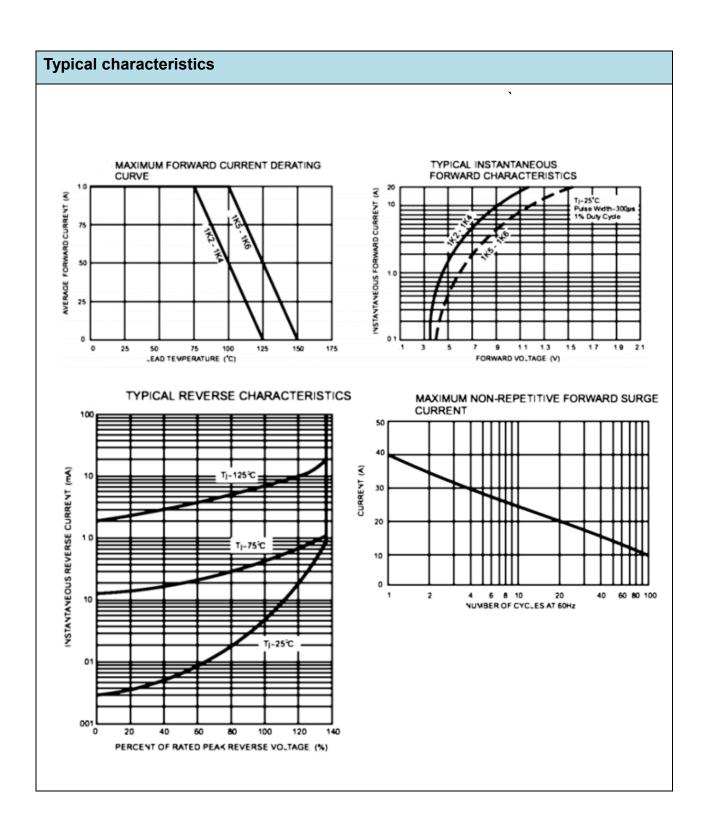
Notes:

1 The thermal resistance from junction to ambient



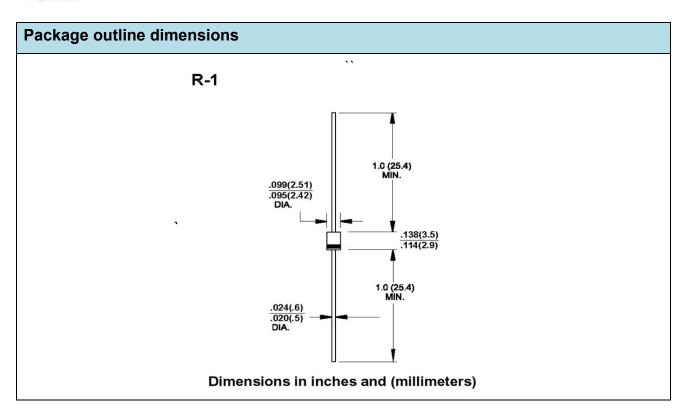
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Orderinginformation (Example)							
PREFERRED	UNITWEIGHT(g)	PREFERREDPACKAGECODE	BASEQUANTITY DELIVERYMODE				
1K2							





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