

■ **Features**

- Glass passivated chip
- Low reverse leakage current
- High surge current capability
- Fast reverse recovery time

■ **Applications**

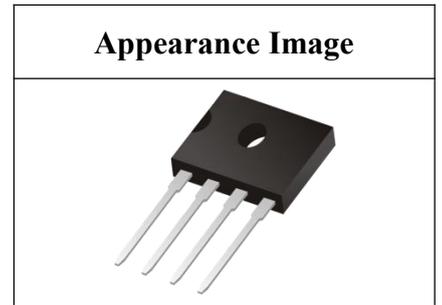
- General purpose use in AC/DC bridge full wave rectification

■ **Mechanical Data**

- Case: D3K
- Polarity symbols being marked on body
- Molding compound meets UL 94V-0 flammability rating
- RoHS-compliant, Solder plated, solderable per MIL-STD-750, Method 2026



Reverse Voltage 50-1000 V Forward Current 4.0 A max
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■ **Marking**

- RD3K4(005~10)

■ **Maximum Ratings @ Ta = 25°C unless otherwise noted**

PARAMETER	SYMBOL	UNIT	RD3K4005	RD3K401	RD3K402	RD3K404	RD3K406	RD3K408	RD3K410
Repetitive peak reverse voltage	V_{RRM}	V	50	100	200	400	600	800	1000
Maximum RMS voltage	V_{RMS}	V	35	70	140	280	420	560	700
Maximum DC blocking Voltage	V_{DC}	V	50	100	200	400	600	800	1000
Maximum average output current@60Hz sine wave, resistance load	$I_{F(AV)}$	A	4.0						
Peak forward surge current 8.3 ms single half sine wave superimposed on rated load	I_{FSM}	A	120						
Peak forward surge current 1.0 ms single half sine wave superimposed on rated load		A	240						
Current squared time @1ms≤t<8.3ms Tj=25°C, Rating of per diode	I^2t	A ² S	59.76						
Maximum reverse recovery time	T_{rr}	ns	150				250	500	
Storage temperature	T_{stg}	°C	-55~+150						
Junction temperature	T_j	°C	-55~+150						

■ **Electrical Characteristics @ Ta = 25°C unless otherwise noted**

PARAMETER	TEST CONDITIONS	SYMBOL	UNIT	RD3K4005	RD3K401	RD3K402	RD3K404	RD3K406	RD3K408	RD3K410
Maximum instantaneous forward voltage	$I_F=2.0A$	V_F	V	1.3						
Maximum DC reverse current at rated DC blocking voltage	$V_R=V_{DC}, T_j=25°C$	I_R	μA	5						
	$V_R=V_{DC}, T_j=100°C$	I_R		100						

■ **Characteristic Curve (Typical)**

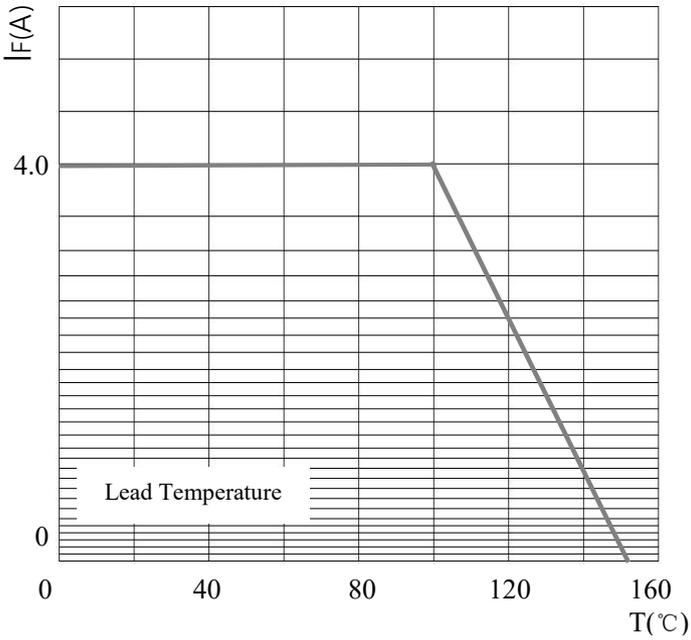


FIG1. Derating Curve For Output Rectified Current

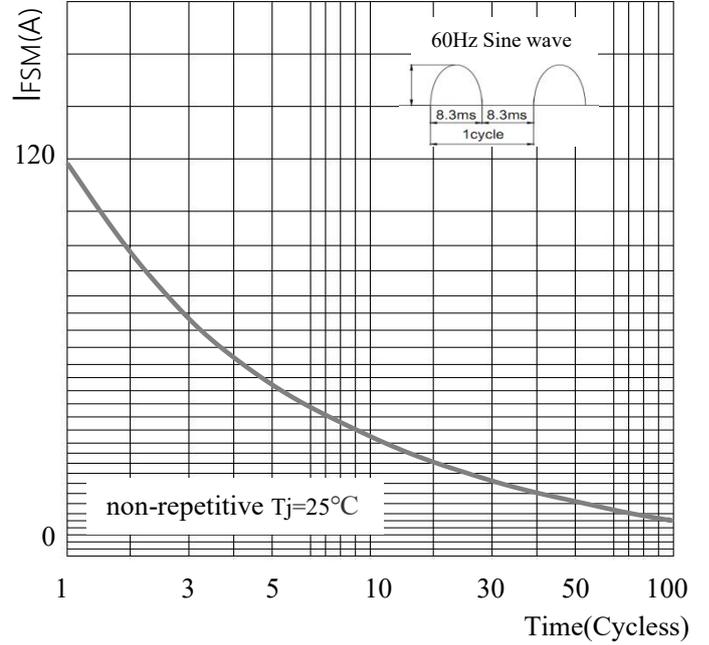


FIG2. Surge Forward Current Capability

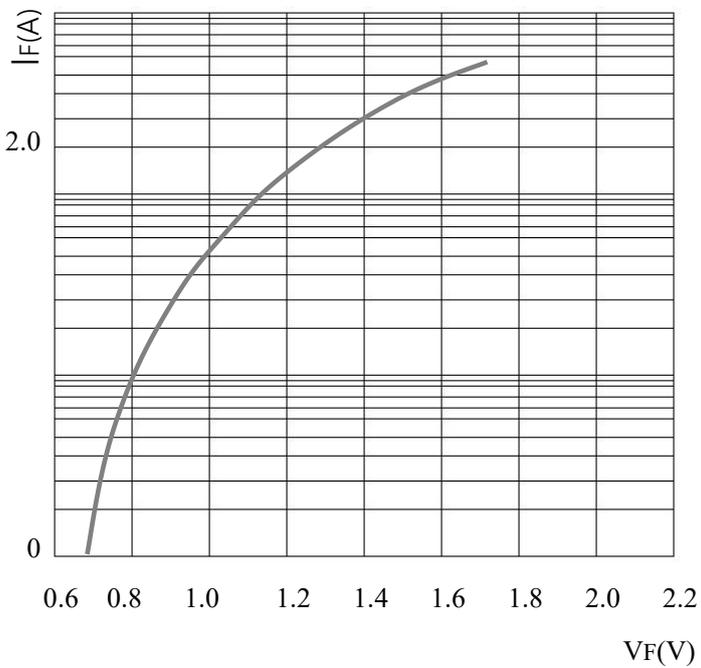


FIG3. Typical Forward Characteristics

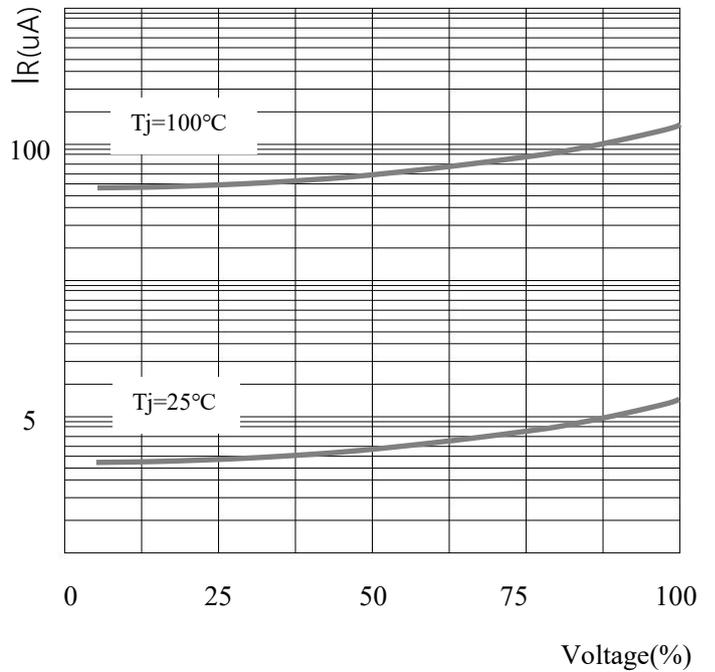
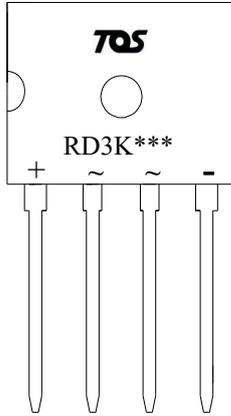


FIG4. Typical Reverse Characteristics

■ **Marking and packet information**

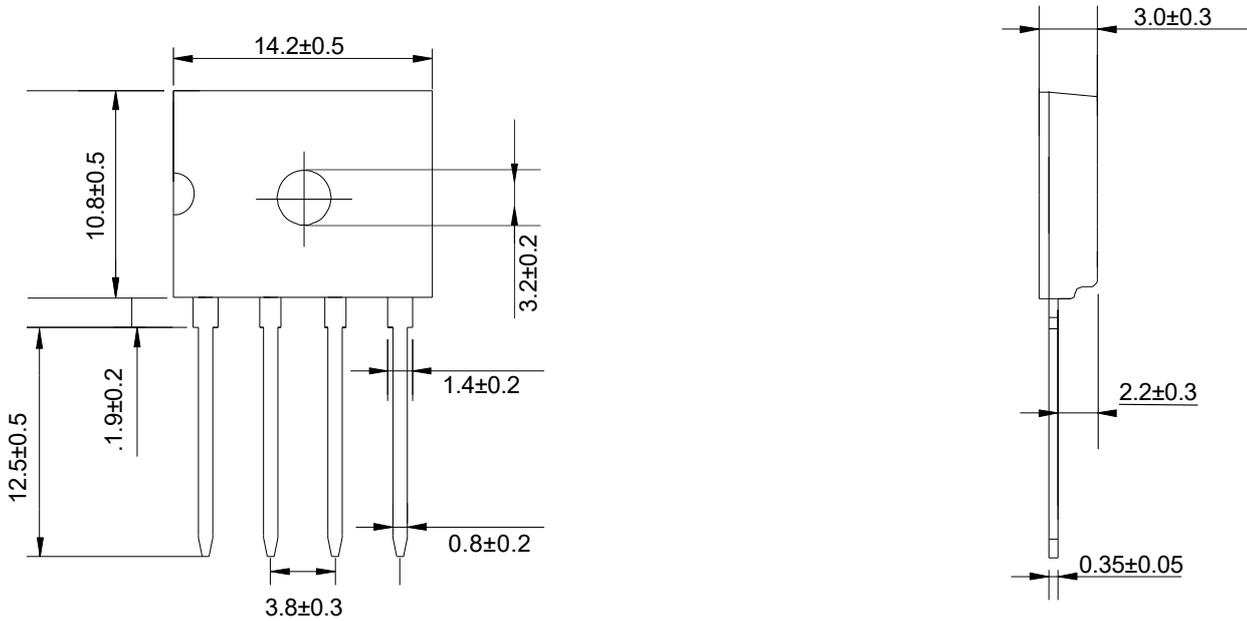


RD3K*** : Marking Model

TOS : Brand Logo

Packaging information	
每盒	500PCS
每箱	5000PCS
脚长定制	支持

■ **D3K Package outline dimensions**



Dimensions in millimeters

■ **Notice**

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