Data Sheet

Customer :

Product : Surface Mount Super Fast Recovery Rectifiers

Package : DO-214AA/SMB

Issued Date : 01-Aug.-2026

Edition : Ver. 1

Record of change

Date	Ver.	Description	Page
01-Aug.-2026	1		

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01-Aug.-2026	01-Aug.-2026	01-Aug.-2026	
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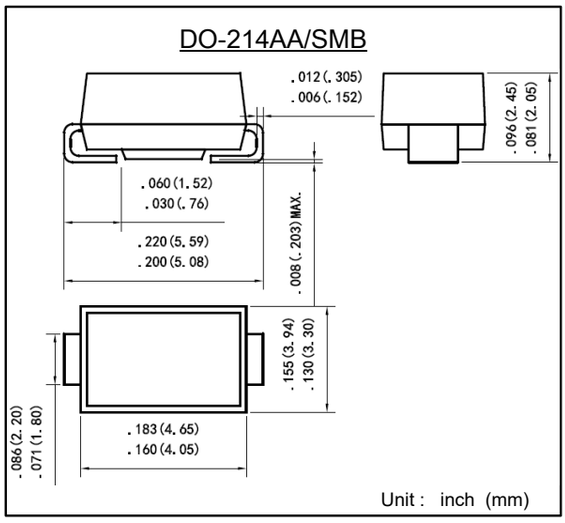
HITANO
ENTERPRISE CORP. ®

HRS2A-Q~HRS2M-Q

Surface Mount Super Fast Recovery Rectifiers

Reverse Voltage 50~1000 V

Forward Current 2.0 A



Features

- Low reverse leakage
- High forward surge capability
- High reliability
- High temperature soldering guaranteed : 260℃/10seconds
- Lead and body according with RoHS standard

Mechanical Data

- Case : DO-214AA Molded plastic
- Epoxy : UL 94V-0 rate flame retardant
- Lead : Pure tin plated, lead free
- High reliability grade (AEC Q101 qualified)
- Accreditation through IATF16949 System

Maximum Ratings & Characteristics

Ratings at 25℃ ambient temperature unless otherwise specified.

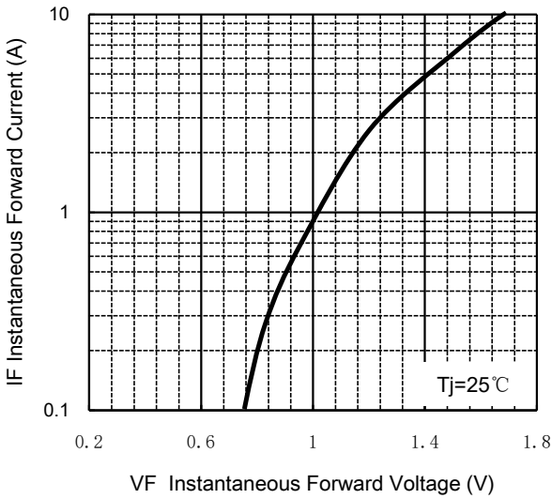
Parameter	Symbols	HRS2A-Q	HRS2B-Q	HRS2D-Q	HRS2G-Q	HRS2J-Q	HRS2K-Q	HRS2M-Q	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum average forward rectified current	$I_{F(AV)}$	2.0							A
Non-repetitive peak forward surge current 8.3 ms singlehalf sine-wave	I_{FSM}	30							A
Maximum forward voltage @IF=2.0A	V_F	1.30							V
Maximum reverse current @V_{DC} TA= 25℃	I_R	5							μA
TA= 125℃		100							
MAX. reverse recovery time IF=0.5A , IR=1.0A ,IRR=0.25A	T_{RR}	150				250	500		nS
Typical thermal resistance (Note 1)	$R_{\theta JA}$	85							℃/W
Type junction capacitance VR=4.0V,f=1MHz	C_J	22							pF
Operating junction and storage temperature rang	T_J, T_{STG}	-55 --- +150							℃

Note :

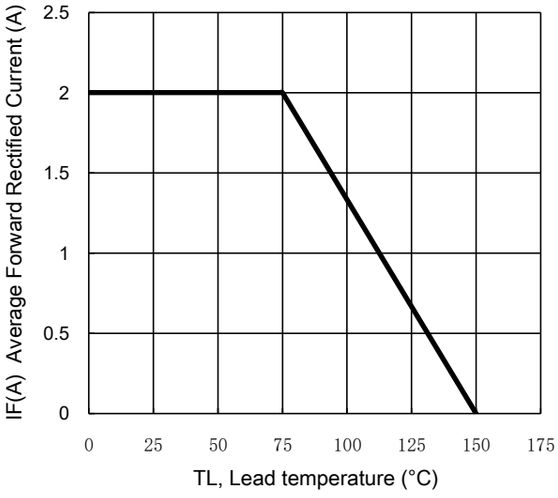
1) Thermal resistance from junction to ambient, PCB mounted.

Characteristic Curves

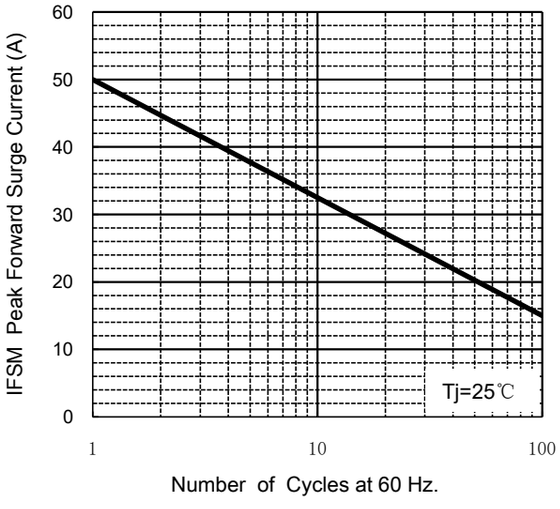
TYPICAL FORWARD CHARACTERISTIC



FORWARD CURRENT DERATING CURVE



MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT



Typical Reverse Characteristics